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# Origins and Pedigrees of Public Soybean Varieties in the United States and Canada

ABSTRACT

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In this report are described the origins of the 440 U.S. and Canadian soybean varieties that are maintained in the USDA Germplasm Collection at Urbana, Illinois, and Stoneville, Mississippi. Varieties in commercial use before the mid-1940's were mostly introductions, and this report includes for each the geographic place of origin, the person or institution that provided the seeds, the foreign variety name (if any), as well as information about when it was released and who released it in the United States or Canada. Modern varieties have been developed by hybridization and selection. In this bulletin, the pedigree is specified and where and when each variety was developed and released. This information allows researchers and breeders to trace modern soybean varieties back to their introduced ancestors and facilitates breeding plans and evaluation of the germplasm base of the current commercial soybean crop.

KEYWORDS: Cultivar, germplasm, Glycine max (L.) Merrill, pedigree, soybean, variety origin.

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# ORIGINS AND PEDIGREES OF PUBLIC SOYBEAN VARIETIES IN THE UNITED STATES AND CANADA

Bernard, Richard L., Gail A. Juvik, Edgar E. Hartwig, and Calton J. Edwards, Jr.

Soybean varieties (cultivars) of the United States and Canada are preserved in the USDA Soybean Germplasm Collection, with early maturing ones at Urbana, Illinois (Group IV and earlier) and late maturing ones at Stoneville, Mississippi (Group V and later). The number of varieties by maturity group and by country of origin is given in tables 1 and 2. Subsequent tables provide origin and pedigree information, prior designation, year of release or license, name of the developer or developing institution, and reference, as well as maturity group for each variety.

## Old Domestic Varieties

In table 3 are listed the 204 strains (140 north and 64 south) of old domestic varieties. Most of them were developed or sponsored by public institutions, but a few are from private individuals, seed companies, or other private sources and are included here to provide a complete list of varieties developed before 1947. Many of them were of foreign origin and were grown commercially exactly as introduced, whereas others were selections from seed lots that were heterogeneous when introduced or that became heterogeneous after introduction, probably by outcrossing or mixture. The ancestry of several may be traced to the same introduction. For example, there are 18 varieties derived from PI 30.593 (Manchu). Some of the names reflect their common origin: A.K. and A.K. (Harrow); Manchu, Hudson Manchu, Montreal Manchu, Manchu 3, Manchu 606, and Manchu 2204; Manchuria, Manchuria 13177, and Manchuria 20173; Mandarin, Mandarin (Ottawa), and Mandarin 507; and Wilson, Wilson-Five, and Wilson-6. Where a domestic variety is derived from a specified PI strain, a strain may be currently maintained in the Germplasm Collection under that PI number. Presumably the domestic variety and the PI strain are both selections from a heterogeneous introduction, but considering the early history of germplasm maintenance other explanations are also likely.

Also included in table 3 are old domestic varieties selected from hybrids of known parents. The first of these hybrids was Ogemaw developed in 1902. Little is known of this early breeding work and the two parental varieties are not in the collection. Several selections from natural crosses in Mammoth Yellow with presumed known male parents were released in the 1920's in Mississippi and South Carolina (Mamloxi, Mamotan 6640, Mamredo, and Yelredo).

Modern soybean variety development using hybridization followed by selection began in 1939 with the release of Pagoda, developed by F. Dimmock at the Canada Department of Agriculture in Ottawa, followed the next year by the release of Chief, developed by C.M. Woodworth at the Illinois Agricultural Experiment Station (AES), and Ogden, developed by H.P. Ogden at the Tennessee AES. During the 1940's there were eight additional selections from known hybrids: Lincoln and Viking at the Illinois AES; Gibson at the Indiana AES; Tennessee Non Pop and Volstate at the Tennessee AES; Capital at Ottawa, Canada; and Acadian and Nela at the Louisiana AES. In addition, several farmer selections and a few experiment station varieties of unknown origin are in table 3. All varieties in table 3 were developed prior to 1950 except two foreign introductions from the mid-1960's (Miller 67 and Patterson) and a 1966 release of a reselection (Wilson-6) from an old introduced variety.

For five varieties, two or three genetically different versions were received. Since it was not known from written descriptions which was original, all versions were preserved

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using brackets after the name to indicate the source. A.K. [FC 30.761] from a seed company in Kentucky and A.K. [Kansas] from the Kansas AES were both received as A.K., an introduction known to be heterogeneous. Bansei was received from the Illinois AES and Bansei [Ames] as Bansei from the Iowa AES. Hahto is a Group VI introduction, but Hahto [Michigan] is a Group IV from the Ford Motor Company as Hahto. Jogun was from the Illinois AES and Jogun [Ames] was received as Jogun from the Iowa AES. Manchu from the Illinois AES, Manchu [Lafayette] from the Purdue AES, and Manchu [Madison] from the Wisconsin AES were all received as Manchu.

The old varieties are represented in the collection by typical single-plant progenies. Five varieties were heterogeneous when first received and two or three sublines are now maintained. The subline representing the predominant type is designated with the variety name, and the secondary sublines are differentiated with the suffix B or C (Bavender Special B and C, Manchu [Lafayette] B, Willomi B, Wilson B, and Wilson-Five B). The varieties Peking and Virginia are maintained at both germplasm sites.

The Soybean Germplasm Collection was started in 1949. All old U.S. and Canadian varieties and foreign (FC and PI) strains were sought throughout the country. Many old domestic varieties, including some of the most popular ones such as Ito San, had been discarded and could not be found. These lost varieties are listed in table 4, with brief information about their origins. The list is based on W.J. Morse's 1948 compilation of "Soybean Varietal Names Used to Date" (reference 13 in table 5).

In table 5 are listed the major publications on the origins of old domestic soybean varieties. Most of the information in table 3 was derived from them, but some information was also obtained from old correspondence, lists, and research summaries.

**Modern Domestic Varieties From Public Institutions**

Table 6 includes origin information for the 236 varieties (173 north and 63 south) developed and released by public institutions from 1947 to 1986. Almost all are selections from hybrids of known parentage and can be traced to their introduced ancestors. Three are reselections from varieties also in the collection (Acme, Jupiter-R, and Tracy-M). One is a mutant from the variety Lee (Bossier). Two have unknown male parents (Curtis and Vance). Four are selections from intermated populations and their exact parentage is unknown (Elgin, Harper, Lakota, and Wye).

Pedigrees are given in the conventional form used by soybean researchers. A x B denotes a hybrid with A the female parent and B the male parent. (A x B) x C denotes that the hybrid A x B (generation not specified) or sometimes a selected line from A x B was the female parent. A (B x C) x D denotes the cross A x D, and that A is a selection from B x C. [A x (B x C)] x D denotes that the cross B x C was made first and used as a male parent in the cross A x (B x C), which was then used as the female parent in the final cross with D as the male parent. A(n) x B denotes a backcross with n crosses (n-1 backcrosses) to the recurrent parent A. If A was consistently the male parent, this would be written B x A(n).

Thirty-two of the varieties in table 6 are isolines (near isogenic lines) derived by backcrossing (3 or more backcrosses). They are listed in table 7 with descriptive genetic information. All the recurrent parents are varieties given in table 6. Most of the donor parents are in table 3 and the rest are maintained elsewhere in the Germplasm Collection. The trait transferred to Will was semideterminate stem type. In all other isolines the desirable trait transferred was pest resistance, with resistance to phytophthora rot being the most common breeding objective. The 16 unreleased

isolines appearing in pedigrees in table 6 are listed and identified in table 8.

All the varieties of table 6 are listed in table 9 with references to Agronomy Journal or Crop Science registrations and Canadian licensing. In searching for pedigree information, when the authors occasionally found inconsistencies between published reports, they contacted the originating institutions to verify the information. To help maintain the correct record in the future, the published discrepancies are given in table 10. Every effort has been made to insure that the pedigrees in tables 3 and 6 are correct and authoritative. If any errors are found, please notify the authors.

**Germplasm Resources Information Network**

The information in this publication can also be found in the USDA Germplasm Resources Information Network (GRIN). To learn more about this germplasm database system, contact the Database Management Unit, GRIN, Building 001, Room 130, BARC-West, Beltsville, Maryland 20705.

Table 1
Number of U.S. and Canadian soybean varieties by maturity group

| Maturity group | Old domestic varieties | Modern public varieties | Total |
|---|---|---|---|
| 000 | 3 | 1 | 4 |
| 00 | 5 | 15 | 20 |
| 0 | 7 | 19 | 26 |
| I | 23 | 25 | 48 |
| II | 26 | 41 | 67 |
| III | 38 | 34 | 72 |
| IV | 38 | 38 | 76 |
| Total North | 140 | 173 | 313 |
| V | 11 | 20 | 31 |
| VI | 16 | 20 | 36 |
| VII | 19 | 11 | 30 |
| VIII | 18 | 9 | 27 |
| IX | 0 | 3 | 3 |
| Total South | 64 | 63 | 127 |
| Grand total | 204 | 236 | 440 |

Table 2
Number of U.S. and Canadian soybean varieties by country of origin

| Country | Old domestic varieties | Modern public varieties | Total |
|---|---|---|---|
| Canada | 4 | 24 | 28 |
| China | 91 | 0 | 91 |
| China, Taiwan | 4 | 0 | 4 |
| France | 2 | 0 | 2 |
| Italy | 1 | 0 | 1 |
| Japan | 42 | 0 | 42 |
| Korea | 21 | 0 | 21 |
| Morocco | 1 | 0 | 1 |
| Soviet Union | 6 | 0 | 6 |
| United States | 32 | 212 | 244 |
| Total | 204 | 236 | 440 |

Table 3
Origins and pedigrees of old domestic soybean varieties

| Variety[1/] | Maturity group | Source and other information[2/] |
|---|---|---|
| Acadian | VIII | Selected from PI 60.406 ('Cung Yien' from Nanping, Fujian, China, in 1924) x FC 04.910 (an unknown strain) |
| Agate | 00 | 'Kurakake Daizu' from Sapporo, Hokkaido, Japan, in 1929 |
| A.K. [FC 30.761] | IV | 'A.K.' from northeast China in 1912 by the Lucas Paint Company, New Jersey. 'A.K. [FC 30.761]' was received by the USDA in 1940 as 'A.K.' from Young and Conway, Morganfield, Kentucky |
| A.K. [Kansas] | IV | 'A.K.' from northeast China in 1912 by the Lucas Paint Company, New Jersey. 'A.K. [Kansas]' was received at Urbana in 1949 as 'A.K.' from the Kansas AES |
| A.K. (Harrow) | III | Selected from 'A.K.' by 1928 (appears identical to 'Illini') |
| Aksarben | II | 'White Eyebrow Bean' from Faku, Liaoning, China, in 1913 |
| Aoda | IV | 'Ao Daizu' from Hakodate, Hokkaido, Japan, in 1929 |
| Arisoy | VIII | 'Izari Mame Kinai No. 1' from Konosu, Saitama, Japan, in 1930 |
| Arksoy | VI | From Pyongyang, North Korea, in 1914 |
| Arlington | V | 'Hei Don' from Baoding, Hebei, China, in 1908 |
| Armredo | VI | Selected from 'Mamredo' in 1942 |
| Austin | V | From Pyongyang, North Korea, in 1901 |
| Avoyelles | VIII | Selected from 'Otootan' in a farmer's field, Avoyelles Parish, Louisiana |
| Bansei | II | 'Banseiosayada Mame' from Sapporo, Hokkaido, Japan, in 1929 |
| Bansei [Ames] | II | Received at Urbana in 1950 as 'Bansei' from the Iowa AES |
| Barchet | VIII | 'Ma Liao Tou' from Jinhua, Zhejiang, China, in 1907 |
| Bavender Special A | III | Selected from 'Mukden' x an unknown strain from North Carolina |
| Bavender Special B | III | [sublines A, B, and C were separated in 1967 at Urbana] |
| Bavender Special C | III | |

See footnotes at end of table.

| Variety | Prior designation | Year named or released | Developer or sponsor[3/] | Literature[4/] |
|---|---|---|---|---|
| Acadian | La40-293 | 1943 | Louisiana AES | 13, 14 |
| Agate | PI 81.037 | 1937 | USDA | 8, 11 |
| A.K. | — | By 1917 | E.J. Kinney, Lucas Paint Company, New Jersey | 5 |
| A.K. (Harrow) | A.K. | By 1939 | R. Dimmock, Department of Agriculture, Harrow Experiment Station, Harrow, Ontario, Canada | 13 |
| Aksarben | PI 36.576 | By 1923 | T.A. Kiesselbach, Nebraska AES and USDA | 5 |
| Aoda | PI 81.043 | 1939 | USDA | 11 |
| Arisoy | PI 86.736 | By 1943 | USDA | 13, 14 |
| Arksoy | PI 37.335 | 1937 | C.K. McClelland, Arkansas AES and USDA | 8, 11 |
| Arlington | PI 22.899 | 1910 | USDA | 3 |
| Armredo | — | By 1945 | Arizona AES | 13, 14 |
| Austin | PI 6.397 | 1909 | USDA | 2, 3 |
| Avoyelles | — | 1931 | Louisiana AES | 11 |
| Bansei | PI 81.031 | 1936 | USDA | 7, 11 |
| Barchet | PI 20.798 (also PI 23.232) | 1910 | USDA | 3 |
| Bavender Special | — | 1945 | Mr. Bavender, farmer, Whitten, Iowa | 13, 14 |

Table 3
Origins and pedigrees of old domestic soybean varieties--Con.

| Variety[1/] | Maturity group | Source and other information[2/] |
|---|---|---|
| Biloxi | VIII | 'Tsze Pi Tou' from Tangxi, Zhejiang, China, in 1908 |
| Blackeye | I | From Harbin, Heilongjiang, China, in 1934 |
| Black Eyebrow | II | 'Hei Mei Tou' from Wulakai, Jilin, China, in 1911 |
| Boone | IV | From Tongjiangkou, Liaoning, China, in 1921. Called 'Missouri Selection' from 1935 to 1942 |
| Burwell | I | Unknown origin |
| Capital | 0 | Selected from 'No. 171' (introduced in 1931 from Sochentze, east of Harbin, Heilongjiang, China, via the Royal Botanic Gardens, London, England) x 'A.K. (Harrow)' |
| Cayuga | I | From Harbin, Heilongjiang, China, in 1925 |
| Charlee | VII | From the University of Nanjing, Nanjing, China, in 1927 |
| Cherokee | VIII | 'Ke Lu Tou' from Hangzhou, Zhejiang, China, in 1931 |
| Chestnut | III | Selected from 'Habaro' in 1907 at the USDA Arlington Farm, Virginia |
| Chief | IV | Selected from 'Illini' x 'Manchu A' (a typical Manchu selection) |
| Chusei | III | 'Chusei O Saya Eda Mame' from Tokyo, Japan, in 1929 |
| Clemson | VII | From the University of Nanjing, Nanjing, China, in 1927 |
| Cloud | III | From Hangzhou, Zhejiang, China, in 1905 |
| CNS | VII | Selected from 'Clemson', but is probably PI 71.597 ('Nanking') from the University of Nanjing, Nanjing, China, in 1927 |
| Columbia | III | 'Da Ching Don' from Baoding, Hebei, China, in 1908 |
| Creole | VII | From the University of Nanjing, Nanjing, China, in 1927 |
| Delsoy | VI | From the AES, Suweon, Gyeonggi Do, South Korea, in 1930 |

See footnotes at end of table.

| Variety | Prior designation | Year named or released | Developer or sponsor[3/] | Literature[4/] |
|---|---|---|---|---|
| Biloxi | PI 23.211 | 1918 | USDA | 4 |
| Blackeye | -- | 1940 | T.F. Ritchie, Department of Agriculture, Horticulture Division, Central Experimental Farm, Ottawa, Ontario, Canada | -- |
| Black Eyebrow | PI 30.744 | 1918 | USDA | 4 |
| Boone | PI 54.563-3 | 1935 | B.M. King, Missouri AES | 13, 14 |
| Burwell | -- | By 1933 | Unknown | 18 |
| Capital | — | 1944 | F. Dimmock, Department of Agriculture, Central Experimental Farm, Ottawa, Ontario, Canada | 13, 14 |
| Cayuga | PI 65.393 | 1933 | R.G. Wiggans, New York AES | 11 |
| Charlee | PI 71.663 | 1939 | USDA | 11 |
| Cherokee | PI 93.057 | By 1944 | USDA | 13, 14 |
| Chestnut | PI 20.405B | 1910 | USDA | 3 |
| Chief | T119 | 1940 | C.M. Woodworth, Illinois AES | 13, 14 |
| Chusei | PI 80.472 | 1936 | USDA | 7, 11 |
| Clemson | PI 71.569 | 1939 | USDA (PI 71.659 in reference 11 may be correct) | 11, 13, 14 |
| Cloud | PI 16.790 | 1910 | USDA | 3 |
| CNS | -- | 1943 | J.E. Wannamaker, St. Matthews, South Carolina | 13, 14 |
| Columbia | PI 22.897 | 1910 | USDA | 3 |
| Creole | PI 71.614 | 1936 | USDA | 7, 11 |
| Delsoy | PI 85.355 | By 1943 | USDA | 13, 14 |

Table 3
Origins and pedigrees of old domestic soybean varieties--Con.

| Variety[1/] | Maturity group | Source and other information[2/] |
|---|---|---|
| Delsta | VIII | Unknown origin |
| Dixie | V | From Pyongyang, North Korea, in 1914 |
| Dunfield | III | 'Pai Mei' from Fanjiatun, Jilin, China, in 1913 |
| Earlyana | I | Selected from 'Dunfield' in 1931 |
| Early White Eyebrow | 0 | Obtained from the North Dakota AES, probably the same as 'White Eyebrow' (PI 30.745) from Wulakai, Jilin, China, in 1911 |
| Easycook | VI | From Shangdong Province, China, in 1894 (PI-numbered in 1912) |
| Ebony | IV | From Pyongyang, North Korea, in 1901 |
| Elton | I | From Khabarovsk, Siberia, USSR, in 1907 |
| Emperor | IV | From the AES, Sariwon, Hwanghae Bug Do, North Korea, in 1932 |
| Etum | II | 'Oyachi' from the Tokachi Branch Experiment Station, Obihiro, Hokkaido, Japan, in 1930 |
| Flambeau | 00 | From the USSR in 1934 |
| Fuji | III | 'Chuseikurome Daizu' from Sapporo, Hokkaido, Japan, in 1929 |
| Funk Delicious | IV | From Japan by 1932 |
| Funman | II | Selected from 'Manchu' |
| Gatan | VII | Selected from 'Otootan' |
| Georgian | VII | From the University of Nanjing, Nanjing, China, in 1927 |
| Giant Green | I | From the Takii Seed Company, Kyoto, Japan, to the Illinois AES in 1935 |
| Gibson | IV | Selected from 'Dunfield' x 'Midwest' |
| Goku | II | 'Gokuwase Daihosan Shinbon Daizu' from Saitama, Japan, in 1929 |

See footnotes at end of table.

| Variety | Prior designation | Year named or released | Developer or sponsor[3/] | Literature[4/] |
|---|---|---|---|---|
| Delsta | Selection 6677 | 1924 | H.A. York, Delta Experiment Station, Stoneville, Mississippi | 11 |
| Dixie | PI 37.330 | 1927 | USDA | 6 |
| Dunfield | PI 36.846 | 1923 | C.O. Cromer, Purdue AES, Indiana | 6 |
| Earlyana | C28 | 1943 | Claude Greenham, Purdue AES, Indiana | 13, 14 |
| Early White Eyebrow | -- | By 1940 | 'White Eyebrow' by USDA | 6 |
| Easycook | PI 34.702 | By 1923 | USDA | 5 |
| Ebony | PI 6.386 | 1907 | USDA | 1, 3 |
| Elton | PI 20.406 | 1910 | USDA | 3 |
| Emperor | PI 97.155 | 1939 | Illinois AES | 10, 13, 14 |
| Etum | PI 86.100 | By 1941 | USDA | 13, 14 |
| Flambeau | Wisconsin 839-14 | 1944 | Spooner Branch Station, Wisconsin AES | 13, 14 |
| Fuji | PI 81.029 | 1936 | USDA | 7, 11 |
| Funk Delicious | -- | 1932 | Funk Brothers Seed Company, Bloomington, Illinois | 11 |
| Funman | -- | By 1938 | Funk Brothers Seed Company, Bloomington, Illinois | 13 |
| Gatan | -- | 1943 | Georgia AES | 13, 14 |
| Georgian | PI 71.583 | 1936 | USDA | 7, 11 |
| Giant Green | -- | 1938 | J.W. Lloyd, Illinois AES | 9, 10, 13, 14 |
| Gibson | C169 | 1942 | G.H. Cutler, Purdue AES, Indiana | 13, 14 |
| Goku | PI 80.480 | 1936 | USDA | 7, 11 |

Table 3
Origins and pedigrees of old domestic soybean varieties--Con.

| Variety[1] | Maturity group | Source and other information[2] |
|---|---|---|
| Goldsoy | 0 | Selected from 'OAC 211' |
| Granger | III | Selected from 'Manchu' by the Ohio AES |
| Green and Black | IV | From the AES, Suweon, Gyeonggi Do, South Korea, in 1930 |
| Guelph | III | From Japan in 1889 by Prof. W.P. Brooks, Massachusetts AES. Called 'Medium Green' from 1903 to 1907 |
| Habaro | I | From Khabarovsk, Siberia, USSR, in 1907 |
| Haberlandt | VI | From Pyongyang, North Korea, in 1901 |
| Hahto | VI | 'Hato Koroshi Daizu' from Kawamata, Fukushima, Japan, in 1915 |
| Hahto [Michigan] | IV | Unknown origin, possibly selected from 'Hahto' |
| Hakote | II | 'Aoshiro Daizu' from Sapporo, Hokkaido, Japan, in 1929 |
| Harbinsoy | IV | From Benxi, Liaoning, China, in 1921 |
| Harman | III | Selected from 'Manchu' |
| Harrel | V | From a farmer in Virginia |
| Hayseed | VI | From the University of Nanjing, Nanjing, China, in 1927 |
| Hidatsa | 000 | 'Sousei Eda Mame' from Sapporo, Hokkaido, Japan, in 1929 |
| Higan | IV | 'Higan Mame' from Tokyo, Japan, in 1929 |
| Hokkaido | IV | 'Hokkaido Tsurunoko' from Tokyo, Japan, in 1930 |
| Hollybrook | V | Selected from 'Mammoth Yellow' |
| Hongkong | IV | From Hong Kong, China, in 1908 |
| Hoosier | I | 'Chin Yuan Tou' from Wulakai, Jilin, China, in 1911 |

See footnotes at end of table.

| Variety | Prior designation | Year named or released | Developer or sponsor[3/] | Literature[4/] |
|---|---|---|---|---|
| Goldsoy | — | By 1940 | Ontario Agricultural College, Guelph, Ontario, Canada | 13, 14 |
| Granger | Ohio 31-4 | 1941 | New Jersey AES | 13, 14 |
| Green and Black | PI 84.784 | 1941 | J.R. Fain, Jefferson City, Tennessee | 13 |
| Guelph | — | 1907 | USDA | 1, 3 |
| Habaro | PI 20.405 | 1910 | A.C. Arny, Minnesota AES and USDA | 3 |
| Haberlandt | PI 6.396 (also PI 17.271) | 1907 | USDA | 1, 3 |
| Hahto | PI 40.118 | 1918 | USDA | 4 |
| Hahto [Michigan] | Hahto | By 1940 | Ford Motor Company | 18 |
| Hakote | PI 81.039 | 1936 | USDA | 7, 11 |
| Harbinsoy | PI 54.606-3 | By 1932 | USDA | 8, 11 |
| Harman | — | 1943 | Department of Agriculture, Harrow Experiment Station, Harrow, Ontario, Canada | 13, 14 |
| Harrel | — | By 1950 | Unknown | 19 |
| Hayseed | PI 71.525 | 1937 | USDA | 8, 11 |
| Hidatsa | PI 81.038 | 1941 | O.H. Will and Company, Bismarck, North Dakota | 13, 14 |
| Higan | PI 80.475 | 1936 | USDA | 7, 11 |
| Hokkaido | PI 85.666 | 1936 | USDA | 7, 11 |
| Hollybrook | — | 1902 | T.W. Wood and Sons, Richmond, Virginia | 1, 3 |
| Hongkong | PI 22.406 | 1910 | USDA | 3 |
| Hoosier | PI 30.746 | By 1923 | USDA | 5 |

Table 3
Origins and pedigrees of old domestic soybean varieties--Con.

| Variety[1/] | Maturity group | Source and other information[2/] |
|---|---|---|
| Hurrelbrink | IV | Selected from 'Haberlandt' in 1902 |
| Illington | III | From Japan to the Illinois AES by 1938 |
| Illini | III | Selected from 'A.K.' in 1920 |
| Ilsoy | III | Selected from 'Ebony' in 1913 |
| Imperial | IV | 'Tsurunoko' from the Hokushu Experiment Station, Kotoni, Hokkaido, Japan, in 1929 |
| Improved Pelican | VIII | Selected from 'Pelican', which was selected from 'Tanloxi' x PI 60.406 ('Cung Yien' from Nanping, Fujian, China, in 1924). 'Pelican' was released by 1943 |
| Jefferson | IV | From Gangweon Do, South Korea, in 1929 |
| J.E.W. 45 | VIII | Selected from a mixed seed lot |
| Jogun | III | 'Shirobana' from Dojogun, Hamgyeong Bug Do, North Korea, in 1930 |
| Jogun [Ames] | III | Received at Urbana in 1957 as 'Jogun' from the Iowa AES |
| Kabott | 0 | From Ningan, Heilongjiang, China, by 1933 |
| Kagon | I | Obtained from Wisconsin |
| Kanro | II | 'Kanro' from Pyongyang, North Korea, in 1930 |
| Kanum | II | From the AES, Suweon, Gyeonggi Do, South Korea, in 1930 |
| Kingston | IV | From Japan in 1889 by Prof. W.P. Brooks, Massachusetts AES |
| Kingwa | IV | Selected from 'Peking' in 1921 |
| Korean | II | 'Early Korean' from China to the Harrow Experiment Station, Ontario, Canada, by 1923 [probably originated in North Korea] |

See footnotes at end of table.

| Variety | Prior designation | Year named or released | Developer or sponsor[3/] | Literature[4/] |
|---|---|---|---|---|
| Hurrelbrink | -- | By 1923 | Frank Hurrelbrink, farmer, Taylorville, Illinois | 11 |
| Illington | -- | 1938 | Illinois AES | 9, 10 |
| Illini | A.K. 3 | 1927 | C.M. Woodworth, Illinois AES | 6 |
| Ilsoy | Illinois 13-19 | By 1927 | C.M. Woodworth, Illinois AES | 6 |
| Imperial | PI 81.780 | 1939 | USDA | 11 |
| Improved Pelican | -- | 1950 | Louisiana AES | 13, 19 |
| Jefferson | PI 82.202 | 1941 | J.R. Fain, Jefferson City, Tennessee | 13 |
| J.E.W. 45 | -- | 1945 | J.E. Wannamaker, St. Matthews, South Carolina | 19 |
| Jogun | PI 87.615 | 1936 | USDA | 7, 11 |
| Kabott | -- | 1939 | F. Dimmock, Department of Agriculture, Central Experimental Farm, Ottawa, Ontario, Canada | 13, 14 |
| Kagon | -- | By 1944 | Obtained by T.E. Stoa, North Dakota AES | 13 |
| Kanro | PI 84.928 | 1936 | USDA | 7, 11 |
| Kanum | PI 84.668-1 | By 1941 | USDA | 13, 14 |
| Kingston | PI 17.255 | 1907 | Rhode Island AES and USDA | 1, 3 |
| Kingwa | Pekwa | 1931 | West Virginia AES | 11 |
| Korean | Early Korean | By 1928 | Department of Agriculture, Harrow Experiment Station, Harrow, Ontario, Canada | 16 |

Table 3
Origins and pedigrees of old domestic soybean varieties--Con.

| Variety[1/] | Maturity group | Source and other information[2/] |
|---|---|---|
| Kura | III | 'Kurakake Daizu' from Sapporo, Hokkaido, Japan, in 1929 |
| Laredo | VI | From Yangpingguan, Shaanxi, China, in 1915 |
| Lexington | V | From Tianjin, China, in 1906 |
| Lincoln | III | Selected from 'Mandarin' x 'Manchu' |
| Linman 533 | II | Selected from 'Manchu' |
| Louisiana Green | VIII | Selected from a hybrid population |
| Luthy | V | Selected from 'Manchu' |
| Macoupin | IV | Obtained in Carolina by 1926 as 'Mammoth Yellow' |
| Magnolia | VI | From the AES, Suweon, Gyeonggi Do, South Korea, in 1930 |
| Mamloxi | VIII | Selected from a natural cross 'Mammoth Yellow' x 'Biloxi' |
| Mammoth Yellow | VII | Unknown origin, probably from Japan. Grown in North Carolina since 1882. Also called 'Mammoth' |
| Mamotan 6640 | VIII | Selected from a natural cross 'Mammoth Yellow' x 'Otootan' |
| Mamredo | VI | Selected from 'Mammoth Yellow' x 'Laredo' |
| Manchu | III | 'Huang Tou' from Ningan, Heilongjiang, China, in 1911 |
| Manchu [Lafayette] | III | Received at Urbana in 1943 as 'Manchu' from the Purdue AES, Indiana [subline B was separated in 1967 at Urbana] |
| Manchu [Lafayette] B | III | |
| Manchu [Madison] | II | Received at Urbana in 1951 as 'local Manchu' from the Wisconsin AES |
| Manchu, Hudson | II | Selected from 'Manchu' |
| Manchu, Montreal | I | Selected from 'Manchu' |

See footnotes at end of table.

| Variety | Prior designation | Year named or released | Developer or sponsor[3/] | Literature[4/] |
|---|---|---|---|---|
| Kura | PI 81.042 | 1936 | USDA | 7, 11 |
| Laredo | PI 40.658 | By 1923 | USDA | 5 |
| Lexington | PI 17.862E | 1918 | USDA | 4 |
| Lincoln | L36-685 | 1943 | C.M. Woodworth and L.F. Williams, Illinois AES and USRSL | 13, 14 |
| Linman 533 | -- | By 1939 | Iowa AES | 18 |
| Louisiana Green | — | By 1946 | Louisiana AES | 19 |
| Luthy | -- | By 1950 | John Luthy, farmer, Cambridge, Maryland | 19 |
| Macoupin | -- | 1930 | Elmer Hulcher, farmer, Nilwood, Illinois | 11 |
| Magnolia | PI 85.537 | By 1939 | USDA | 13, 14 |
| Mamloxi | — | 1922 | Delta Experiment Station, Stoneville, Mississippi | 11 |
| Mammoth Yellow | -- | By 1895 | Unknown | 1, 2, 3 |
| Mamotan 6640 | -- | 1929 | Delta Experiment Station, Stoneville, Mississippi | 19 |
| Mamredo | -- | 1924 | Delta Experiment Station, Stoneville, Mississippi | 11 |
| Manchu | PI 30.593 | 1918 | USDA | 4 |
| Manchu, Hudson | — | By 1939 | T.B. Macauley, Montreal, Quebec, Canada | 13 |
| Manchu, Montreal | -- | By 1944 | T.B. Macauley, Montreal, Quebec, Canada | 13, 14 |

Table 3
Origins and pedigrees of old domestic soybean varieties--Con.

| Variety[1/] | Maturity group | Source and other information[2/] |
|---|---|---|
| Manchu 3 | II | Selected from 'Manchu' |
| Manchu 606 | II | Selected from 'Manchu' |
| Manchu 2204 | III | Selected from 'Manchu'. Grown by the USDA at Holgate, Ohio, in 1942 |
| Manchukota | II | Selected from 'Manchu' |
| Manchuria | I | 'Chinyuan' from northeast of Harbin, Heilongjiang, China, in 1910. Also named 'Pinpu' |
| Manchuria 13177 | III | Selected from 'Manchuria' in 1913 |
| Manchuria 20173 | III | Selected from 'Manchuria' in 1920 |
| Mandarin | I | From Sui Hua, Heilongjiang, China, in 1913 |
| Mandarin (Ottawa) | 0 | Selected from 'Mandarin' in 1929. Also called 'Mandarin' and 'Ottawa Mandarin' |
| Mandarin 507 | I | Selected from 'Mandarin' |
| Mandell | III | Selected from 'Manchu' in 1926 at C. Meharry Farm, Odell, Indiana |
| Manitoba Brown | 00 | Obtained by the Manitoba Agricultural College, Canada, from the USDA about 1922 |
| Mansoy | III | Selected from 'Manchu' in 1915 at the USDA Arlington Farm, Virginia |
| Medium Green | I | From Japan in 1889 by Prof. W.P. Brooks, Massachusetts AES. 'Guelph' was a synonym |
| Mendota | I | From the AES, Suweon, Gyeonggi Do, South Korea, in 1930 |
| Midwest | IV | From central China in 1901. Called 'Medium Yellow' from 1910 to 1923. Also called 'Mongol' |
| Miller 67 | III | Unknown origin, perhaps from Korea |

See footnotes at end of table.

| Variety | Prior designation | Year named or released | Developer or sponsor[3/] | Literature[4/] |
|---|---|---|---|---|
| Manchu 3 | Wis. Manchu 3 | By 1940 | G.M. Briggs, Wisconsin AES | 13, 14 |
| Manchu 606 | Wis. Manchu 606 | By 1940 | G.M. Briggs, Wisconsin AES | 13, 14 |
| Manchu 2204 | — | By 1942 | Unknown | 18 |
| Manchukota | Manchu 831 | 1943 | South Dakota AES | 13, 14 |
| Manchuria | PI 28.050 | By 1912 | USDA | 5 |
| Manchuria 13177 | Ohio 13177 | By 1940 | Ohio AES | 13 |
| Manchuria 20173 | Ohio 20173 | By 1948 | Ohio AES | 18 |
| Mandarin | PI 36.653 | By 1920 | USDA | 5 |
| Mandarin (Ottawa) | -- | 1934 | F. Dimmock, Department of Agriculture, Central Experimental Farm, Ottawa, Ontario, Canada | 13, 14 |
| Mandarin 507 | — | By 1943 | G.M. Briggs, Wisconsin AES | 13, 14 |
| Mandell | MM-35 | By 1934 | G.H. Cutler, Purdue AES, Indiana | 11 |
| Manitoba Brown | PI number lost | By 1939 | Manitoba Agricultural College, Winnipeg, Manitoba, Canada | |
| Mansoy | -- | By 1928 | USDA | 11 |
| Medium Green | — | By 1903 | W.P. Brooks, Massachusetts AES | 1, 3 |
| Mendota | PI 84.668 | By 1944 | O.B. Combs, Department of Horticulture, Wisconsin AES | 13, 14 |
| Midwest | PI 6.556 | 1910 | USDA | 3, 5 |
| Miller 67 | — | 1967 | Richard Miller, farmer, Arcanum, Ohio | 18 |

Table 3
Origins and pedigrees of old domestic soybean varieties--Con.

| Variety[1] | Maturity group | Source and other information[2] |
|---|---|---|
| Mingo | III | Selected from 'Manchu' in 1924 |
| Minsoy | 0 | From Vilmorin-Andrieux and Company, Paris, France, in 1910 |
| Missoy | VII | From the University of Nanjing, Nanjing, China, in 1927 |
| Monetta | VII | From the University of Nanjing, Nanjing, China, in 1927 |
| Morse | IV | From Niuzhuang, Liaoning, China, in 1907 |
| Mukden | II | 'Hsiao Chin Huang Tou' from Shenyang, Liaoning, China, in 1920 |
| Nanda | VIII | From the AES, Sariwon, Hwanghae Bug Do, North Korea, in 1932 |
| Nansemond | V | From a farmer in Virginia |
| Nela | VIII | Selected from 'Mamotan 6680', which was selected from 'Mammoth Yellow' x 'Otootan' |
| Norredo | IV | Unknown origin, probably from 'Laredo'. Grown in Indiana since 1910 |
| Norsoy | I | From a farmer in Minnesota. Also called 'Pridesoy' |
| OAC 211 | I | Selected from 'Habaro' |
| Ogden | VI | Selected from 'Tokyo' x PI 54.610 (from Changchun, Jilin, China, in 1921) by H.P. Ogden, Tennessee AES |
| Ogemaw | 00 | Selected from 'No. 6 Early Black' x 'Dwarf Brown' [both parent strains are of unknown origin] |
| Old Dominion | VI | From Yexian, Shandong, China, in 1917 |
| Ontario | I | From Harbin, Heilongjiang, China, in 1925 |
| Osaya | III | 'Chusei O Saya Eda Mame' from Tokyo, Japan, in 1929 |
| Otootan | VIII | From Taiwan, China, to Hawaii. From Hawaii to Georgia in 1911 |
| Pagoda | 00 | Selected from 'Manitoba Brown' x 'Mandarin' |

See footnotes at end of table.

| Variety | Prior designation | Year named or released | Developer or sponsor[3/] | Literature[4/] |
|---|---|---|---|---|
| Mingo | Ohio Manchu 1 | By 1940 | Ohio AES | 13, 14 |
| Minsoy | PI 27.890 | 1923 | Minnesota AES | 5 |
| Missoy | PI 71.664 | 1939 | USDA | 11 |
| Monetta | PI 71.608 | 1936 | USDA | 7, 11 |
| Morse | PI 19.186 | 1910 | USDA | 3 |
| Mukden | PI 50.523Q | 1932 | Iowa AES and USDA | 11 |
| Nanda | PI 95.727 | 1936 | USDA | 7, 11 |
| Nansemond | -- | By 1950 | Unknown | 13 |
| Nela | -- | 1945 | Louisiana AES | 13 |
| Norredo | Indiana Laredo | 1935 | USDA | 11 |
| Norsoy | -- | By 1944 | T.E. Stoa, North Dakota AES | 13, 14 |
| OAC 211 | -- | By 1928 | Ontario Agricultural College, Guelph, Ontario, Canada | 13 |
| Ogden | -- | 1940 | Tennessee AES | 13, 14 |
| Ogemaw | Ogema, Evans Crossbred No. 9 | 1902 | E.E. Evans, West Branch, Michigan | 1, 3 |
| Old Dominion | PI 44.512 | 1927 | USDA | 6 |
| Ontario | PI 65.344 | 1941 | R.G. Wiggans, New York AES | 13, 14 |
| Osaya | PI 80.465 | 1936 | USDA | 7, 11 |
| Otootan | -- | By 1918 | C.K. McClelland, Georgia AES | 5 |
| Pagoda | -- | 1939 | F. Dimmock, Department of Agriculture, Central Experimental Farm, Ottawa, Ontario, Canada | 13, 14 |

Table 3
Origins and pedigrees of old domestic soybean varieties--Con.

| Variety[1/] | Maturity group | Source and other information[2/] |
|---|---|---|
| Palmetto | VII | From the University of Nanjing, Nanjing, China, in 1927 |
| Pando | 000 | From Korea by Prof. Meader, University of New Hampshire, in 1947 |
| Patoka | IV | From Wujiazi, Heilongjiang, China, in 1926 |
| Patterson | IV | From Morocco by 1966, irradiated with Cobalt 60 |
| Peking<br>Peking S | IV<br>V | From Beijing, China, in 1906 ['Peking S' is the 'Peking' variety maintained at Stoneville, Mississippi] |
| Pennsoy | III | A rogue in 'Manchuria 13177' |
| Pine Dell Perfection | VI | Selected from a natural cross |
| Pluto | VII | From Taaihohhau, Anhui, China, in 1927 |
| Pocahontas | VII | Selected in James City County, Virginia |
| Poland Yellow | 0 | Unknown origin, possibly from Poland. Received at Ottawa, Ontario, Canada, about 1931 |
| Portugal | I | Unknown origin, possibly from Portugal. Received at Urbana from the USDA, Beltsville, Maryland, in 1949 |
| Ralsoy | VI | Selected from 'Arksoy' |
| Richland | II | From Changling, Jilin, China, in 1926 |
| Roanoke | VII | A rogue in 'Nanking'. 'Nanking' was PI 71.597 from the University of Nanjing, Nanjing, China, in 1927 |
| Rokusun | VI | 'Rokusun Daizu' from Tokyo, Japan, in 1929 |

See footnotes at end of table.

| Variety | Prior designation | Year named or released | Developer or sponsor[3/] | Literature[4/] |
|---|---|---|---|---|
| Palmetto | PI 71.587 | 1936 | USDA | 7, 11 |
| Pando | -- | 1949 | Department of Horticulture, University of New Hampshire | 18 |
| Patoka | PI 70.218-2-19-3 | 1940 | G.H. Cutler, Purdue AES, Indiana, and USDA | 13, 14 |
| Patterson | -- | 1966 | E.H. Collister, High Plains Research Foundation, Plainview, Texas | 18 |
| Peking | PI 17.852B | 1910 | USDA | 3 |
| Pennsoy | -- | 1944 | C.O. Cromer, Pennsylvania AES | 13, 14 |
| Pine Dell Perfection | -- | By 1937 | P.M. Griesenauer, Williamsburg, Virginia | 11 |
| Pluto | PI 72.219 | 1946 | J.L. Stephens, USDA, Coastal Plains Experiment Station, Tifton, Georgia | 13 |
| Pocahontas | -- | By 1950 | John Hofmeyer, Williamsburg, Virginia | 13 |
| Poland Yellow | -- | By 1932 | Department of Agriculture, Central Experimental Farm, Ottawa, Ontario, Canada (PI 128.182) | 18 |
| Portugal | -- | By 1949 | Unknown | 18 |
| Ralsoy | -- | 1940 | G.H. Banks, Purina Mills, Osceola, Arkansas | 13, 14 |
| Richland | PI 70.502-2 | 1938 | Purdue AES, Indiana, and USDA | 11 |
| Roanoke | N41-90 | 1946 | North Carolina AES and USRSL | 13, 14 |
| Rokusun | PI 80.481 | 1936 | USDA | 7, 11 |

Table 3
Origins and pedigrees of old domestic soybean varieties--Con.

| Variety[1/] | Maturity group | Source and other information[2/] |
|---|---|---|
| Rose Non Pop | VI | Selected from 'Haberlandt' |
| S-100 | V | Selected from 'Illini' (possibly a maturity mutant) in 1938 by Lee Mumford, farmer, Rutledge, Missouri. Reselected in 1942 by the Missouri AES |
| Sac | I | 'Furisode' from Hokkaido, Japan, in 1929 |
| Sanga | IV | From Yungchingweitzu, northeast China, in 1926 |
| Sato | IV | 'Kuro Daizu' from Sapporo, Hokkaido, Japan, in 1929 |
| Scioto | IV | Selected from 'Manchu' in 1925 |
| Seminole | VIII | From Hangzhou, Zhejiang, China, in 1931 |
| Seneca | II | From northeast China in 1920 |
| Shingto | III | 'Shing Toa' from Tieling, Liaoning, China, in 1907 |
| Shiro | IV | 'Aoiiro Daizu' from Sapporo, Hokkaido, Japan, in 1929 |
| Sioux | 000 | 'Aoshiro Eda Mame' from Sapporo, Hokkaido, Japan, in 1929 |
| Sooty | IV | Selected from 'Cloud' in 1907 at the USDA Arlington Farm, Virginia |
| Sousei | II | 'Sousei O Saya Eda Mame' from Tokyo, Japan, in 1929 |
| Soysota | I | From Daumann and Company, Naples, Italy, in 1910 |
| Tanner | VII | Selected from 'Otootan' by Tom Tanner, Decatur, Alabama |
| Tarheel Black | VII | From Shanghai, China, in 1905. Called 'Shanghai' from 1910 to 1923 |
| Tastee | II | 'Kurakake B' from the Tokachi Branch Experiment Station, Obihiro, Hokkaido, Japan, in 1930 |
| Tennessee Non Pop | VII | Selected from 'Tokyo' x PI 54.610 (from Changchun, Jilin, China, in 1921) |

See footnotes at end of table.

| Variety | Prior designation | Year named or released | Developer or sponsor[3/] | Literature[4/] |
|---|---|---|---|---|
| Rose Non Pop | -- | 1942 | W.P. Rose, Goldsboro, North Carolina | 13, 14 |
| S-100 | -- | 1945 | Missouri AES | 13, 14 |
| Sac | PI 80.462 | 1941 | Iowa AES | 13, 14 |
| Sanga | PI 70.210-1 | By 1944 | John Livengood, Atwood, Illinois | 13 |
| Sato | PI 81.041 | 1936 | USDA | 7, 11 |
| Scioto | -- | 1933 | J.B. Park, Ohio AES | 11 |
| Seminole | PI 93.058 | By 1943 | USDA | 13, 14 |
| Seneca | FC 03.654A | 1939 | R.G. Wiggans, New York AES and USDA | 13, 14 |
| Shingto | PI 21.079 | 1910 | USDA | 3 |
| Shiro | PI 81.036 | 1936 | USDA | 7, 11 |
| Sioux | PI 81.021 | 1939 | USDA | 11 |
| Sooty | PI 16.790B | 1927 | USDA | 6 |
| Sousei | PI 80.476 | 1936 | USDA | 7, 11 |
| Soysota | PI 28.019 | By 1923 | Minnesota AES | 6 |
| Tanner | -- | 1939 | Jacob Hartz Seed Company, Stuttgart, Arkansas | 13, 14 |
| Tarheel Black | PI 14.952 | 1910 | USDA | 3, 5 |
| Tastee | PI 86.019 | By 1941 | USDA | 13, 14 |
| Tennessee Non Pop | -- | 1942 | Tennessee AES | 13, 14 |

Table 3
Origins and pedigrees of old domestic soybean varieties--Con.

| Variety[1] | Maturity group | Source and other information[2] |
|---|---|---|
| Toku | II | 'Toiku No. 7' from the Tokachi Branch Experiment Station, Obihiro, Hokkaido, Japan, in 1930 |
| Tokyo | VII | 'Ita Name' from Yokohama, Japan, in 1902 |
| Tortoise Egg | I | From Japan to the Illinois AES by 1938 |
| Viking | III | Selected from 'Illini' x 'Manchu A' (a typical Manchu selection) |
| Virginia | IV | Selected from 'Morse' in 1909 at the USDA Arlington Farm, Virginia. ['Virginia S' is the 'Virginia' variety maintained at Stoneville, Mississippi] |
| Virginia S | V | |
| Volstate | VII | Selected from 'Tokyo' x PI 54.610 (from Changchun, Jilin, China, in 1921) |
| Waseda | II | 'Wase Eda Mame' from Hokkaido, Japan, in 1929 |
| Wea | II | 'Chin Yuan Tou' from Shuangcheng, Heilongjiang, China, in 1911 |
| White Biloxi | VIII | Selected from 'Biloxi' in 1925 |
| Willomi | III | 'Akita Daizu' from Hakodate, Hokkaido, Japan, in 1929 |
| Willomi B | III | [subline B was separated in 1967 at Urbana] |
| Wilson | IV | From Niuzhuang, Liaoning, China, in 1907 [subline B was separated in 1967 at Urbana] |
| Wilson B | IV | |
| Wilson-Five | IV | Selected from 'Wilson' in 1910 at the USDA Arlington Farm, Virginia [subline B was separated in 1967 at Urbana] |
| Wilson-Five B | IV | |
| Wilson-6 | IV | Selected from 'Wilson' |
| Wing Jet | III | 'Wing Jet' is probably a selection from 'Jet' from the Wing Seed Company of Ohio. 'Jet' is PI 17.861 from Sachon, Hebei, China, in 1906 |
| Wisconsin Black | I | 'Extra Early Black-Seeded' from Vilmorin-Andrieux and Company, Paris, France, in 1900 |
| Wolverine | III | 'Tamba Otsubu Daizu' from Tamba, Kyoto, Japan, in 1929 |
| Woods Yellow | VII | Selected from 'Mammoth Yellow' |

See footnotes at end of table.

| Variety | Prior designation | Year named or released | Developer or sponsor[3/] | Literature[4/] |
|---|---|---|---|---|
| Toku | PI 86.129 | 1936 | USDA | 7, 11 |
| Tokyo | PI 8.424 | 1907 | USDA | 1, 3 |
| Tortoise Egg | -- | 1938 | Illinois AES | 9 |
| Viking | T118 | 1942 | C.M. Woodworth, Illinois AES | 13, 14 |
| Virginia | PI 19.186D | 1918 | USDA | 4 |
| Volstate | -- | 1942 | Tennessee AES | 13, 14 |
| Waseda | PI 80.461-1 | 1936 | USDA | 7, 11 |
| Wea | PI 30.600 | 1923 | USDA | 5 |
| White Biloxi | -- | By 1939 | Delta Experiment Station, Stoneville, Mississippi | 11 |
| Willomi | PI 81.044-1 | 1939 | USDA | 11 |
| Wilson | PI 19.183 | 1909 | USDA | 2, 3 |
| Wilson-Five | PI 19.183-5 | 1918 | USDA | 4 |
| Wilson-6 | -- | 1966 | Virginia AES | 18 |
| Wing Jet | -- | By 1929 | Wing Seed Company, Ohio. 'Jet' by USDA in 1910 | 3 |
| Wisconsin Black | PI 5.039 | 1909 | Wisconsin AES | 2, 3 |
| Wolverine | PI 80.490-1 | 1941 | USDA | 14 |
| Woods Yellow | -- | 1934 | T.W. Wood and Sons, Richmond, Virginia | 11 |

Table 3
Origins and pedigrees of old domestic soybean varieties--Con.

| Variety[1/] | Maturity group | Source and other information[2/] |
|---|---|---|
| Yellow Marvel | II | Unknown origin |
| Yelredo | VIII | Selected from a natural cross 'Mammoth Yellow' x 'Laredo' |

1/ Designations in brackets were added by the curators to differentiate strains of a variety received under the same name. Designations in parentheses are part of the commercial variety name.

2/ Modern place names are used, except Sochentze, Taaihohhau, Yungchingweitzu, and Sachon, China, for varieties Capital, Pluto, Sanga, and Wing Jet, respectively, for which modern equivalents are unknown.

| Variety | Prior designation | Year named or released | Developer or sponsor[3/] | Literature[4/] |
|---|---|---|---|---|
| Yellow Marvel | -- | By 1941 | Rufus Gillette, Mazomanie, Wisconsin | 13 |
| Yelredo | Coker 319 | 1929 | Coker's Pedigreed Seed Company, Hartsville, South Carolina | 11 |

[3/] Abbreviations used are AES (Agricultural Experiment Station), USDA (U.S. Department of Agriculture), and USRSL (U.S. Regional Soybean Laboratory, Urbana, Illinois).

[4/] Numbers refer to literature in table 5. The reference where the variety is first mentioned and other significant references are given. All varieties except Blackeye are in references 18 or 19 and in 20.

Table 4
Lost old domestic soybean varieties

| Variety[1/] | Source |
|---|---|
| Acme | PI 14.954 from Shanghai, China, in 1905 |
| Akasoya | From Japan via Indiana |
| Allison Black | D.T. Allison, Tennessee |
| Amherst | PI 4.913 (PI 17.275) from Japan in 1900 |
| Arikara | O. Will Company, North Dakota |
| Arkan | PI 87.050 from Niummen, Keisho Nando, Korea, in 1930 |
| Arksoy 2913 | Arkansas Experiment Station, Marianna (similar to 'Arksoy') |
| Auburn | PI 21.079A from Tieling, Manchuria, China, in 1907 |
| Baird | PI 6.414 (PI 22.333) from Pyongyang, Korea, in 1901 |
| Biltan | Selection from 'Otootan', South Africa |
| Brindle | PI 20.407 from Merkoechofka, Siberia, in 1906 |
| Brooks | PI 16.789 from Hangchow, China, in 1905 |
| Brownie | PI 6.414 (PI 17.256) from Pyongyang, Korea, in 1901 |
| Buckshot | PI 6.334 (PI 17.251) from Tokyo, Japan, in 1901 |
| Burnette | From Farmville, North Carolina |
| Butterball | PI 8.433 (PI 17.273) from Japan in 1902, via Rhode Island AES in 1903 |
| Chame | PI 80.473 from Tokyo, Japan, in 1929 |
| Chang | PI 54.610-2 from Changchun, Kirin, China, in 1921 |
| Chernie | PI 18.227 from Khabarovsk, Siberia, in 1906 |
| Chinaton Echo | From Harrow, Ontario, Canada |
| Chiquita | PI 27.707 from Hankow, China, in 1910 |
| Chuku | La Choy Company, Ohio |
| Cibao | From El Salvador |
| Delnoshat | Delta Station selection 6679, Mississippi |
| Delredo | From Mississippi |
| DeSoto | Ohio farmer |
| Dortchsoy No. 2 | Dortch Seed Company, Arkansas (selected from 'Ogden', similar to 'Ogden') |
| Dortchsoy No. 6 | Dortch Seed Company, Arkansas |
| Dortchsoy No. 7 | Dortch Seed Company, Arkansas |
| Doxie | Georgia Experiment Station |
| Duggar | PI 17.268C, a selection from 'Ito San' |
| Early Brown | PI 25.130 and PI 25.161 from Tennessee AES and Indiana AES in 1909 |
| Eda | PI 17.257 from Japan in 1890 |
| Edgecombe | R.P. Cocke, Williamsburg, Virginia |
| Edna | PI 6.312 (PI 17.252C) from Tokyo, Japan, in 1901 |
| Edward | PI 14.953 from Shanghai, China, in 1905 |
| Fairchild | PI 19.184 from Newchwang, Manchuria, China, in 1906 |
| Farnham | PI 22.312 from Shanghai, China, in 1908 |
| Feed All | A.M. Johnson, North Carolina |
| Flat King | PI 6.312 (PI 17.252) from Tokyo, Japan, in 1901 |
| Flava | PI 16.789A from Hangchow, China, in 1905 |
| Gala | Georgia Experiment Station |
| Gem | P.B. Hutchins, Missouri |
| George Washington | From Virginia |
| Giant Yellow | PI 22.415 from Naples, Italy, in 1908 |
| Golden | Harrow Experiment Station, Ontario, Canada |
| Goshen Prolific | Farmer selection, North Carolina |
| Hamilton | From USDA number 23 by Ohio Experiment Station in 1909 |

See footnote at end of table.

| Variety[1/] | Source |
|---|---|
| Hankow | PI 6.559 from beyond Chiu Niu, China, in 1901 |
| Hansen | PI 20.409 from Merkoechofka, Siberia, in 1906 |
| Hay Boy | Farmer selection, North Carolina |
| Herman | From North Carolina |
| Hiro | PI 86.038 from Obihiro, Hokkaido, Japan, in 1930 |
| Hope | PI 6.335 (PI 17.267) from Tokyo, Japan, in 1901 |
| Ignotum | E.E. Evans, Michigan |
| Italian | Canada Experiment Station |
| Ito San | PI 17.268 from Japan in 1890 |
| Jet | PI 17.861 from Sachon, China, in 1906 |
| Johnsoy | A.E. Johnson, North Carolina |
| Kentucky A | Kentucky Experiment Station selection |
| Kia | Illinois Experiment Station selection |
| Kungchuling | From Manchuria, China |
| Looney No. 2 | Farmer selection, Tennessee |
| Lowrie | PI 22.898A from Paotingfu, Chihli, China, in 1908 |
| Loxitan | Delta Experiment Station selection, Mississippi |
| Ludeke | Farmer selection, North Carolina |
| LZ | Louisiana Experiment Station selection |
| Mammoth Brown | Unknown |
| Manhattan | PI 6.333 (PI 17.277) from Tokyo, Japan, in 1901 |
| Matthews | Farmer selection, Georgia |
| Merko | PI 20.412 from Merkoechofka, Siberia, in 1906 |
| Meyer | PI 17.852 from Peking, China, in 1906 |
| Midunk | Funk Brothers Seed Company, Illinois |
| Mikado | Farmer selection, Indiana |
| Misstucky | Farmer selection, Kentucky |
| Morgan | PI 22.633 from Sheklung, Kwongtung, China, in 1908 |
| Mount Carmel | PI 70.218-2 from Wuchiatzu, Manchuria, China, in 1926 |
| Mukden No. 4 | Wisconsin Experiment Station selection |
| Nanking | PI 71.597 from Nanking, China, in 1927 (see CNS) |
| Nanksoy | PI 104.881 from Nanking, China, in 1934 |
| Nansemond Early | Farmer selection, Virginia |
| Natsu | PI 19.984 from Yokohama, Japan, in 1907 |
| Nemo | PI 19.985 from Yokohama, Japan, in 1907 |
| Nielsen | PI 22.644B from Hangchow, Chekiang, China, in 1908 |
| Nigra | PI 22.407 from Hong Kong, China, in 1908 |
| Nuttall | PI 6.416 (PI 17.253) from Pyongyang, Korea, in 1901 |
| Okute | PI 19.986 from Yokohama, Japan, in 1907 |
| Oloxi | Coker's Seed Company, South Carolina |
| Otoxi | From South Africa |
| Ozark | PI 37.272 from Kogen Province, Korea, in 1914 |
| Pee Dee | Coker's Seed Company, South Carolina |
| Pingsu | PI 18.259 from Tschang-ping-tsu, China, in 1906 |
| Preston | Virginia Experiment Station selection |
| Quillian | Farmer selection, Oklahoma |
| Rattlesnake | Kentucky Experiment Station selection |
| Riceland | PI 20.797 from Shanghai, China, in 1907 |

Table 4
Lost old domestic soybean varieties--Con.

| Variety[1/] | Source |
|---|---|
| Rila | Marsh Foundation, Ohio |
| Sainte Anne | Canada Experiment Station selection |
| Samarow | PI 17.260 from J.M. Thorburn and Company in 1902 |
| Saskatoon | Farmer selection, Canada |
| Sedo | PI 23.229 from Tientsin, Chihli, China, in 1908 |
| Sherwood | PI 17.862 from Tientsin, China, in 1906 |
| Southern Green | PI 62.839 from Nanking, China, in 1925 |
| Southern Prolific | PI 37.250 from Keiki Province, Korea, in 1914 |
| Stuart | PI 22.644 from Hangchow, Chekiang, China, in 1908 |
| Summerland | Canada Experiment Station selection |
| Suru | PI 89.128 from Kyojo, Korea, in 1930 |
| Swan | PI 22.379 from Canton, Kwangtung, China, in 1908 |
| Taha | PI 21.999 from Boshan, Shantung, China, in 1907 |
| Tanloxi | Delta Station selection 483, Mississippi |
| Tashing | PI 20.854 from Harbin, Manchuria, China, in 1907 |
| Tensas | PI 104.881 from Nanking, China, in 1934 (same as Nanksoy) |
| Texoil | Farmer selection, Texas |
| Tinzan | From Australia |
| Trenton | PI 24.610, a selection from 'Mammoth (Yellow)' in Kentucky in 1904 |
| Trinitaria | From El Salvador |
| U.S.-5 | PI 54.563-5 from Jungchiangko, Shengking, China, in 1921 |
| Vilnensis | From Poland |
| Vireo | PI 22.874 from Tokyo, Japan, in 1908 |
| White Eyebrow | PI 30.745 from Wulukai, Kirin, China, in 1911 |
| Yellow Biloxi | North Carolina Experiment Station selection |
| Yokotenn | PI 19.981 from Yokohama, Japan, in 1907 |
| Yosho | PI 6.314 (PI 17.262) from Tokyo, Japan, in 1901 |

[1/] Also included in W.J. Morse's list were 7 variety names identified as from an "Ohio Report" but which have not been found listed elsewhere: Dunland, Indiana Meadow, Mandriff, Meridian, Reiching, Richfield, and Wisconsin.

Note 4 variety names have been reused: Acme, DeSoto, Morgan, and Preston (see table 6).

Table 5
Literature on old domestic soybean varieties in chronological order


1. Ball, C.R. 1907. Soy bean varieties. U.S. Department of Agriculture, Bureau of Plant Industry Bulletin 98, 30 pp.

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Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Acme | 00 | From Pagoda (Manitoba Brown x Mandarin) in 1946 |
| Ada | 00 | Merit x Norman |
| Adams | III | Illini x Dunfield |
| Adelphia | III | C1070 x Adams<br>C1070 is from C985 (Lincoln x Ogden), a Kent progenitor |
| Alamo | IX | D49-2491(2) x PI 240.664<br>D49-2491 is from S-100 x CNS<br>PI 240.664 is Bilomi No. 3 from the Philippines |
| Altona | 00 | Flambeau x 052-903<br>052-903 is PI 194.654, which is Holmberg 753-1 from Sweden<br>Holmberg 753-1 is from Pagoda x Fiskeby III (PI 196.491) |
| Amcor | II | Amsoy 71 x Corsoy |
| Amsoy | II | Adams x Harosoy |
| Amsoy 71 | II | Amsoy(8) x C1253 (Blackhawk x Harosoy) |
| Anoka | I | II-42-37 (Lincoln(2) x Richland) x Korean |
| Bay | V | York x R62-550 [(R54-168 x Hill) x (Lee x Dortchsoy 110)]<br>R54-168 is from D49-2573 x N45-1497 (Ralsoy x Ogden)<br>D49-2573 is from Roanoke x N45-745 (Ogden x CNS)<br>Dortchsoy 110 is from Ogden x Wabash |
| Bedford | V | Forrest(2) x [D68-18 (Dyer x Bragg) x PI 88.788] |
| Beeson | II | C1253 (Blackhawk x Harosoy) x Kent |
| Beeson 80 | II | Beeson(8) x Arksoy |
| Bethel | IV | FC 33.243 x Perry |
| Bicentennial | 00 | Fiskeby V (PI 360.955) x Harosoy 63 |
| Bienville | VIII | Pelican No. 2 x Ogden<br>Pelican No. 2 is presumably a selection from Pelican and therefore related to Improved Pelican |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Acme | O 17<br>P-17 | 1953 | Central Experimental Farm, Ottawa, Ontario, Canada |
| Ada | M61-60 | 1972 | Minnesota AES and USRSL |
| Adams | A45-2683 | 1948 | Iowa AES and USRSL |
| Adelphia | C1225 | 1964 | Purdue AES, Indiana, and USRSL<br>Released by the New Jersey AES |
| Alamo | F67-5132 | 1978 | Florida AES, Mississippi AES, and USDA<br>Released by Rio Farms, Edcouch, Texas |
| Altona | UM15<br>S59-377 | 1966 | University of Manitoba, Winnipeg, Manitoba, Canada |
| Amcor | L73D-195 | 1979 | Ohio ARDC and USDA |
| Amsoy | A61-939 | 1965 | Iowa AES and USRSL |
| Amsoy 71 | CX407BC7 | 1970 | Purdue AES, Indiana, and USRSL |
| Anoka | M54-160 | 1970 | Minnesota AES and USRSL |
| Bay | V72-580 | 1978 | Virginia AES and USDA |
| Bedford | J74-46 | 1977 | Tennessee AES, Mississippi AES, and USDA |
| Beeson | C1429 | 1968 | Purdue AES, Indiana, and USRSL |
| Beeson 80 | C Beeson PR3 | 1979 | Purdue AES, Indiana, and USDA |
| Bethel | UD321-5 | 1961 | Delaware AES and USRSL |
| Bicentennial | OAC81-2 | 1983 | Crop Science Department, University of Guelph, Guelph, Ontario, Canada |
| Bienville | La 49-1-3<br>La 53-99 | 1958 | Louisiana AES |

Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions--Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Blackhawk | I | Mukden x Richland |
| Bonus | IV | C1266R (Harosoy x C1079) x C1253 (Blackhawk x Harosoy)<br>C1079 is from C985 (Lincoln x Ogden), a Kent progenitor |
| Bossier | VIII | A late mutant in Lee |
| Bradley | VI | D70-3115 x J74-39 [Forrest(2) x (D68-18 x PI 88.788)]<br>D70-3115 is from D64-4636 x D68-8847 (tawny pubescent Pickett 71 type)<br>D64-4636 is from Hill x D58-3311 [Jackson(4) x D49-2491 (S-100 x CNS)]<br>D68-8847 is from the same cross as Pickett 71<br>D68-18 is from Dyer x Bragg |
| Bragg | VII | Jackson x D49-2491 (S-100 x CNS) |
| Braxton | VII | F59-1505 x (Bragg(3) x D60-7965)<br>F59-1505 is from Jackson x D49-2491 (S-100 x CNS)<br>D60-7965 is from D55-4090 (Ogden x CNS) x D55-4159 (Ogden x Biloxi) |
| BSR 101 | I | L69U40-16-4 (Amsoy x Calland) x A76-304020<br>A76-304020 is from (Beeson x AP68-1016) x (L15 x Calland)<br>AP68-1016 is from Clark(5) x PI 84.946-2<br>L15 is from Wayne(6) x Clark 63 |
| BSR 201 | II | Pride B216 (Corsoy x Wayne) x AX901-40-2 (Beeson x AP68-1022)<br>AP68-1022 is from Clark(5) x PI 84.946-2 |
| BSR 301 | III | L15 (Wayne(6) x Clark 63) x AP68-1016 (Clark(5) x PI 84.946-2) |
| BSR 302 | III | (Beeson x AP68-1016) x (L15 x Calland)<br>AP68-1016 is from Clark(5) x PI 84.946-2<br>L15 is from Wayne(6) x Clark 63 |
| Calland | III | C1253 (Blackhawk x Harosoy) x Kent |
| Cartter | III | Williams(2) x PI 88.788 |
| Celest | V | PI 80.837 x Delmar |
| Centennial | VI | D64-4636 (Hill x D58-3311) x D68-8847 (tawny pubescent Pickett 71 type)<br>D58-3311 is from Jackson(4) x D49-2491 (S-100 x CNS)<br>D68-8847 is from the same cross as Pickett 71 |
| Century | II | Calland x Bonus |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Blackhawk | A46K-937 | 1950 | Iowa AES and USRSL |
| Bonus | C1474 | 1971 | Purdue AES, Indiana, and USRSL |
| Bossier | -- | 1958 | Louisiana AES |
| Bradley | S77-228 | 1983 | Missouri AES |
| Bragg | F58-3786 | 1963 | Florida AES and USRSL |
| Braxton | F71-1180 | 1979 | Florida AES and USDA |
| BSR 101 | A80-149020 | 1985 | Iowa AES and USDA |
| BSR 201 | A78-227013 | 1982 | Iowa AES and USDA |
| BSR 301 | A75-302005 | 1979 | Iowa AES and USDA |
| BSR 302 | A76-304019 | 1980 | Iowa AES and USDA |
| Calland | C1437 | 1968 | Purdue AES, Indiana, and USRSL |
| Cartter | L80-3049 | 1986 | Illinois AES and USDA |
| Celest | UD70-80DE-45 | 1977 | Delaware AES and USDA |
| Centennial | D70-3185 | 1976 | Mississippi AES and USDA |
| Century | C1545 | 1979 | Purdue AES, Indiana, and USDA |

Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions--Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Century 84 | II | Century(5) x Williams 82 |
| Chamberlain | III | A76-304020 x Land O Lakes Max<br>A76-304020 is from (Beeson x AP68-1016) x (L15 x Calland)<br>AP68-1016 is from Clark(5) x PI 84.946-2<br>L15 is from Wayne(6) x Clark 63<br>Land O Lakes Max is from [Wayne x (Clark x Adams)] x Cutler |
| Chico | 00 | [Evans x (Merit x Lee)] x (M65-69 x M65-227)<br>M65-69 is from M54-12 (Capital x Renville) x Corsoy<br>M65-227 is from 057-2921 (Blackhawk x Capital) x JA42<br>JA42 is Kogane-Jiro from Japan (probably is PI 317.335) |
| Chippewa | I | Lincoln(2) x Richland |
| Chippewa 64 | I | Chippewa(8) x Blackhawk |
| Clark | IV | Lincoln(2) x Richland |
| Clark 63 | IV | [Clark(6) x (Lincoln x CNS)] x (Clark(6) x Blackhawk)<br>The female parent was actually Clark(4) x S54-1714<br>S54-1714 is from L49-4091 x Clark<br>L49-4091 is from (Lincoln(2) x Richland) x (Lincoln x CNS) |
| Clay | 0 | Renville x Capital |
| CN210 | II | Beeson x L70-2283 (Custer x Chippewa 64) |
| CN290 | II | Beeson x L70-2283 (Custer x Chippewa 64) |
| Cobb | VIII | F57-735 (D49-772 x Improved Pelican) x D58-3358 (Jackson(4) x D49-2491)<br>D49-772 is from Roanoke x N45-745 (Ogden x CNS)<br>D49-2491 is from S-100 x CNS |
| Coles | I | Hark x [Provar x (Disoy x Magna)] |
| Columbus | IV | C1069 x Clark<br>C1069 is from C985 (Lincoln x Ogden), a Kent progenitor |
| Comet | 0 | Pagoda x Mandarin (Ottawa) |
| Corsoy | II | Harosoy x Capital |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Century 84 | HW8185 | 1984 | Ohio ARDC |
| Chamberlain | LN80-8478 | 1986 | Illinois AES |
| Chico | M74-355 | 1983 | Minnesota AES |
| Chippewa | L46-8275 | 1954 | Illinois AES and USRSL |
| Chippewa 64 | L1 | 1964 | Illinois AES and USRSL |
| Clark | L49-5138 | 1953 | Illinois AES and USRSL |
| Clark 63 | SL1 | 1963 | Illinois AES, Missouri AES, and USRSL |
| Clay | M393<br>II-54-53 | 1968 | Minnesota AES and USRSL |
| CN210 | L76-141B | 1983 | Illinois AES, Missouri AES, and USDA |
| CN290 | L76-129B | 1983 | Illinois AES, Missouri AES, and USDA |
| Cobb | F66-1166 | 1973 | Florida AES and USDA |
| Coles | A73-128 | 1976 | Iowa AES, Puerto Rico AES, and USRSL |
| Columbus | K62-7221 | 1971 | Kansas AES and USRSL |
| Comet | 048-36 | 1953 | Central Experimental Farm, Ottawa, Ontario, Canada |
| Corsoy | A61-439 | 1967 | Iowa AES and USRSL |

Table 6
•Origins and pedigrees of modern domestic soybean varieties from public institutions--Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Corsoy 79 | II | Corsoy(6) x Lee 68 |
| Crawford | IV | Williams x Columbus |
| Crest | 00 | F8 291 (Manitoba Brown x Mandarin) x Mandarin<br>[The crossing was done at Ottawa and presumably Mandarin (Ottawa) was the strain used] |
| Cumberland | III | Corsoy x Williams |
| Curtis | VI | A rogue in Lee |
| Custer | IV | {[(Peking x Scott(4))(3) x (i-i Rhg4 line from Peking x Scott(2))] x (Scott(9) x Blackhawk)} x (Peking x Scott(5)) |
| Cutler | IV | C1069 x Clark<br>C1069 is from C985 (Lincoln x Ogden), a Kent progenitor |
| Cutler 71 | IV | Cutler(4) x SL5 [(Kent(7) x L49-4196) x (Kent(8) x Mukden)]<br>L49-4196 is from (F3 Lincoln(2) x Richland) x (F1 Lincoln x CNS) |
| Dare | V | Hill x D52-810 (Roanoke x Ogden) |
| Dassel | 0 | Evans x M66-18 (Clay x Altona) |
| Davis | VI | D49-2573 x N45-1497 (Ralsoy x Ogden)<br>D49-2573 is from Roanoke x N45-745 (Ogden x CNS) |
| Dawson | 0 | Evans x M63-217Y (a yellow hilum Hodgson near-isogenic sib) |
| Delmar | IV | C799 x FC 33.243<br>C799 is from C143 (PI 70.218-2-6-7, a Patoka sib) x Lincoln |
| DeSoto | IV | L66L-140 [Wayne x L57-0034 (Clark x Adams)] x Columbus |
| Disoy | I | (F6 line from Mandarin (Ottawa) x Kanro) x (F6 line from Richland x Jogun) |
| Dorman | V | Dunfield x Arksoy 2913 (a selection from Arksoy) |
| Douglas | IV | Williams x Calland |
| Dowling | VIII | Semmes x PI 200.492<br>PI 200.492 is Komata from Japan |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Corsoy 79 | L75-3674 | 1979 | Illinois AES and USDA |
| Crawford | K1019 | 1977 | Kansas AES and USDA |
| Crest | 051-318<br>051-322 | 1957 | Central Experimental Farm, Ottawa, Ontario, Canada |
| Cumberland | A74-303012 | 1978 | Iowa AES and Puerto Rico AES |
| Curtis | -- | 1958 | Louisiana AES |
| Custer | S5 | 1967 | Missouri AES and USRSL |
| Cutler | C1278 | 1968 | Purdue AES, Indiana, and USRSL |
| Cutler 71 | C1481 | 1971 | Purdue AES, Indiana, and USRSL |
| Dare | N59-6972 | 1965 | North Carolina AES and USRSL |
| Dassel | M75-25 | 1986 | Minnesota AES |
| Davis | R54-171-1 | 1965 | Arkansas AES and USRSL |
| Dawson | M70-128E | 1983 | Minnesota AES |
| Delmar | UD672 | 1963 | Delaware AES and USRSL |
| DeSoto | K1024 | 1979 | Kansas AES and USDA |
| Disoy | AX80-21 | 1967 | Iowa AES and USRSL |
| Dorman | D623-9 | 1952 | Mississippi AES and USRSL |
| Douglas | K1033 | 1980 | Kansas AES and USDA |
| Dowling | Ts73-16 | 1978 | Texas AES and USDA |

Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions--Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Dunn | I | Grant x Chippewa |
| Duocrop | VII | Davis x Columbus |
| Dyer | V | Hill x (F4 Lee(2) x Peking) |
| Egyptian | IV | Franklin x J74-5 [Forrest(2) x (D68-18 x PI 88.788)]<br>D68-18 is from Dyer x Bragg |
| Elf | III | Williams x Ransom |
| Elgin | II | F4 selection from the population AP6 [see Crop Science 15:739] |
| Emerald | IV | Aoda x (Hahto x Kent) |
| Epps | V | [Pickett 71(2) x (Dare(2) x PI 96.983)] x J74-47<br>J74-47 is from Forrest(2) x [D68-18 (Dyer x Bragg) x PI 88.788] |
| Essex | V | Lee x S55-7075 (N48-1248 x Perry)<br>N48-1248 is from Roanoke x N45-745 (Ogden x CNS) |
| Evans | 0 | Merit x Harosoy |
| Fayette | III | Williams(2) x PI 88.788 |
| Ford | III | Lincoln(2) x Richland |
| Forrest | V | Dyer x Bragg |
| Foster | VIII | Centennial x [Forrest x (Cobb x D68-216)]<br>D68-216 is from Dyer x Bragg |
| Franklin | IV | L12 (Clark 63 isoline) x Custer |
| Fremont | III | Williams x Amsoy 71 |
| Gail | VI | Hood x D60-9647 (FC 31.745 x D49-2510)<br>D49-2510 is from S-100 x CNS |
| GaSoy 17 | VII | Bragg x Hood |
| Gnome | II | Williams x Ransom |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Dunn | W61-4221 | 1969 | Wisconsin AES and USRSL |
| Duocrop | Ga76-119 | 1981 | Georgia AES |
| Dyer | D63-7320 | 1967 | Mississippi AES, Tennessee AES, and USDA |
| Egyptian | LS78-248 | 1984 | Southern Illinois University, Carbondale, Illinois |
| Elf | L74D-611 | 1977 | Illinois AES, Ohio AES, and USDA |
| Elgin | A79-133019 | 1984 | Iowa AES and Puerto Rico AES |
| Emerald | UD65-3217 | 1975 | Delaware AES |
| Epps | D77-5090 | 1983 | Mississippi AES, Tennessee AES, and USDA |
| Essex | V66-180 | 1972 | Virginia AES |
| Evans | M61-96 | 1974 | Minnesota AES and USDA |
| Fayette | L78-1444 | 1981 | Illinois AES, Missouri AES, and USDA |
| Ford | A50-8618-2 | 1958 | Iowa AES and USRSL |
| Forrest | D68-128 | 1972 | Mississippi AES, Tennessee AES, and USDA |
| Foster | F76-8827 | 1981 | Florida AES and USDA |
| Franklin | L71L-436 | 1977 | Illinois AES, Missouri AES, and USDA |
| Fremont | U76360 | 1985 | Nebraska AES |
| Gail | D70-7583 | 1978 | Mississippi AES, released by Texas AES |
| GaSoy 17 | GaT71-1088 | 1977 | Georgia AES |
| Gnome | L74D-618<br>HW74-618 | 1979 | Ohio ARDC and USDA |

Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions--Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Gnome 85 | II | Gnome(6) x Williams 82 |
| Gordon | VII | Forrest x Pickett 71 |
| Govan | VII | Bragg x Semmes |
| Grande | 0 | Anoka x Magna |
| Grant | 0 | Lincoln x Seneca |
| Gregg | VII | Bragg x Pickett 71 |
| Hack | II | L70T-543G x K1028 (Williams x Calland)<br>L70T-543G is from L15 (Wayne(6) x Clark 63) x Amsoy 71 |
| Harcor | II | Corsoy x OX383 (Corsoy x Harosoy 63) |
| Hardee | VIII | D49-772 [Roanoke x N45-745 (Ogden x CNS)] x Improved Pelican |
| Hardin | I | Corsoy(3) x Cutler 71 |
| Hardome | 0 | Mandarin (Ottawa)(2) x A.K. (Harrow) |
| Hark | I | Hawkeye x Harosoy |
| Harlon | I | Blackhawk x Harosoy 63 |
| Harly | I | Mandarin (Ottawa) x A.K. (Harrow) |
| Harosoy | II | Mandarin (Ottawa)(2) x A.K. (Harrow) |
| Harosoy 63 | II | Harosoy(8) x Blackhawk |
| Harper | III | F4 selection from an unknown diallel-cross population |
| Harwood | II | Harosoy 63 x C1270 (Mandarin (Ottawa) x Clark) |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Gnome 85 | HC Gnome Rpsl-k<br>Gnome Rpsl-k | 1985 | Ohio ARDC and USDA |
| Gordon | Ga78-2708 | 1984 | Georgia AES |
| Govan | D66-8666 | 1977 | Mississippi AES and USDA |
| Grande | M65-295 | 1976 | Minnesota AES and USDA |
| Grant | W46S-292 | 1955 | Wisconsin AES and USRSL |
| Gregg | La74-4656 | 1983 | Louisiana AES |
| Hack | LN78-1136 | 1984 | Illinois AES |
| Harcor | OX271 | 1975 | Agriculture Canada, Research Station, Harrow, Ontario, Canada |
| Hardee | F58-3734 | 1962 | Florida AES and USRSL |
| Hardin | A76-102009 | 1980 | Iowa AES |
| Hardome | 03-33 | 1953 | Dominion Experiment Station, Harrow, Ontario, Canada |
| Hark | A61-540 | 1966 | Iowa AES and USRSL |
| Harlon | OX643 | 1974 | Agriculture Canada, Research Station, Harrow, Ontario, Canada |
| Harly | 1B/41 | 1948 | Dominion Experiment Station, Harrow, Ontario, Canada |
| Harosoy | 3-23/45 | 1951 | Department of Agriculture, Experiment Station, Harrow, Ontario, Canada |
| Harosoy 63 | L59g-1R | 1963 | Illinois AES and USRSL |
| Harper | A79-336014 | 1984 | Iowa AES and Puerto Rico AES |
| Harwood | O-378-28 | 1970 | Agriculture Canada, Research Station, Harrow, Ontario, Canada |

Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions--Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Hawkeye | II | Mukden x Richland |
| Hawkeye 63 | II | Hawkeye(7) x Blackhawk |
| Henry | II | Richland x H2 (Dunfield x Illini) |
| Hill | V | D632-15 (Haberlandt x Dunfield) x D49-2525 (S-100 x CNS) |
| Hobbit | III | Williams x Ransom |
| Hodgson | I | Corsoy x M372 [M10 (Lincoln(2) x Richland) x PI 180.501] [PI 180.501 was selected in West Germany from Mandschurische Herkunft x USA 54616] |
| Hodgson 78 | I | Hodgson(7) x Merit |
| Hood | VI | Roanoke x N45-745 (Ogden x CNS) |
| Hood 75 | VI | Hood(8) x Arksoy |
| Hoyt | II | Harcor x Elf |
| Hutton | VIII | F55-822 [Jackson x D49-2491 (S-100 x CNS)] x (Roanoke x CNS-4) CNS-4 is a selection from CNS |
| Jackson | VII | Volstate(2) x Palmetto |
| James | V | Delmar x Kent |
| Jeff | VI | Centennial x [R72-2647(3) x (D68-18 x PI 88.788)] R72-2647 is from R66-1516 (Lee(5) x FC 33.243) x RA63-19-2 RA63-19-2 is from (R54-168(2) x Peking) x Lee R54-168 is from [Roanoke x N45-745 (Ogden x CNS)] x N45-1497 (Ralsoy x Ogden) D68-18 is from Dyer x Bragg |
| Johnston | VIII | N70-2173 (Hampton x Ransom) x Hutton Hampton is from Majos (Tokyo x Yelredo) x Lee |
| Jupiter | IX | D49-2491 (S-100 x CNS) x PI 240.664 PI 240.664 is Bilomi No. 3 from the Philippines |
| Jupiter-R | IX | A composite of 7 F15 sublines of Jupiter |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Hawkeye | A43-107<br>A43-108 | 1947 | Iowa AES and USRSL |
| Hawkeye 63 | L59g-2R | 1963 | Illinois AES and USRSL |
| Henry | H21793-7 | 1960 | Ohio AES and USRSL |
| Hill | D53-526 | 1959 | Mississippi AES and USRSL |
| Hobbit | HW74-3385 | 1981 | Ohio ARDC and USDA |
| Hodgson | M63-217Bf | 1974 | Minnesota AES and USDA |
| Hodgson 78 | M75-1 | 1978 | Minnesota AES |
| Hood | D51-4888 | 1958 | Mississippi AES, North Carolina AES, and USRSL |
| Hood 75 | R71-700 | 1975 | Arkansas AES and USRSL |
| Hoyt | HC78-523 | 1986 | Ohio ARDC and USDA |
| Hutton | F63-4000 | 1972 | Florida AES and USDA |
| Jackson | N47-3479 | 1953 | North Carolina AES and USRSL |
| James | UD65-7173 | 1975 | Delaware AES and USDA |
| Jeff | R78-100-8 | 1981 | Arkansas AES |
| Johnston | N76-1507 | 1983 | North Carolina AES and USDA |
| Jupiter | F62-3977 | 1971 | Florida AES and USDA |
| Jupiter-R | -- | 1982 | Florida AES, USDA, and Rio Farms, Edcouch, Texas |

Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions--Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Kahala | IV | UD288 (Hawkeye x FC 33.243) x Bansei |
| Kaikoo | IV | UD288 (Hawkeye x FC 33.243) x Bansei |
| Kailua | IV | UD288 (Hawkeye x FC 33.243) x Bansei |
| Kanrich | III | Kanro(2) x Richland |
| Keller | II | Beeson 80(7) x PRX9-249 (PI 86.972-1 x PI 54.615-1) |
| Kent | IV | Lincoln x Ogden |
| Kershaw | VI | Davis x Hale 3<br>Hale 3 is from D51-4969 [Roanoke x N45-745 (Ogden x CNS)] |
| Kim | III | Sac(2) x Richland |
| Kino | VI | Clark x D49-2491 (S-100 x CNS) |
| Kirby | VIII | Centennial x [Forrest x (Cobb x D68-216)]<br>D68-216 is from Dyer x Bragg |
| Lakota | I | F6 selection from the population AP6 [see Crop Science 15:739] |
| Lawrence | IV | Calland x Williams |
| Lee | VI | S-100 x CNS |
| Lee 68 | VI | Lee(6) x Arksoy |
| Lee 74 | VI | Lee 68 x R66-1517 (Lee(5) x FC 33.243) |
| Leflore | VI | Centennial x J74-47 [Forrest(2) x (D68-18 x PI 88.788)]<br>D68-18 is from Dyer x Bragg |
| Lindarin | II | Mandarin (Ottawa) x Lincoln |
| Lindarin 63 | II | Lindarin(8) x Mukden<br>[A 1963 release called Lindarin 63 was C1294R from Lindarin(5) x Mukden. It was replaced in 1964] |
| Logan | III | [Beeson x L15 (Wayne(6) x Clark 63)] x Amsoy |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Kahala | B-B-4-6-3-3 | 1969 | University of Hawaii, Hawaii |
| Kaikoo | B-B-24-9-3-6 | 1969 | University of Hawaii, Hawaii |
| Kailua | B-B-4-7-1-3 | 1969 | University of Hawaii, Hawaii |
| Kanrich | A50-5039 | 1956 | Iowa AES and USRSL |
| Keller | Beeson 80 BC6 | 1983 | Purdue AES, Indiana, and USDA |
| Kent | C1068 | 1961 | Purdue AES, Indiana, and USRSL |
| Kershaw | SC75-614<br>SC77-614 | 1982 | South Carolina AES |
| Kim | A50-4745 | 1956 | Iowa AES and USRSL |
| Kino | Ar58-1341 | 1966 | Arizona AES and USDA |
| Kirby | F77-1797 | 1983 | Florida AES and USDA |
| Lakota | A77-112023 | 1981 | Iowa AES and Puerto Rico AES |
| Lawrence | L74L-125 | 1981 | Illinois AES and USDA |
| Lee | D49-2524 | 1954 | Mississippi AES, North Carolina AES, and USRSL |
| Lee 68 | R64-501 | 1968 | Arkansas AES and USRSL |
| Lee 74 | R69-1400 | 1974 | Arkansas AES and USRSL |
| Leflore | D77-6166 | 1984 | Mississippi AES, Tennessee AES, and USDA |
| Lindarin | C1117 | 1958 | Purdue AES, Indiana, and USRSL |
| Lindarin 63 | C1315 | 1964 | Purdue AES, Indiana, and USRSL |
| Logan | U75633 | 1985 | Nebraska AES |

Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions--Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Mack | V | {[NC55(3) x S62-5-16-12 (Scott(2) x Peking)] x RA63-19-2} x Lee 68<br>NC55 is from Lee(4) x Peking<br>RA63-19-2 is from (R54-168(2) x Peking) x Lee<br>R54-168 is from [Roanoke x N45-745 (Ogden x CNS)] x N45-1497 (Ralsoy x Ogden) |
| Madison | II | Monroe x Lincoln |
| Magna | II | (F6 line from Mandarin (Ottawa) x Jogun) x (F6 line from Mandarin (Ottawa) x Kanro) |
| Maple Amber | 00 | Holmberg 840-7-3 x (Harosoy 63 x Altona)<br>Holmberg 840-7-3 is from 201-14-20 x 680+993+994 (Muncheberg)<br>201-14-20 is a sib of PI 196.491 |
| Maple Arrow | 00 | Harosoy 63 x Holmberg 840-7-3<br>Holmberg 840-7-3 is from 201-14-20 x 680+993+994 (Muncheberg)<br>201-14-20 is a sib of PI 196.491 |
| Maple Donovan | 0 | Maple Arrow x Harcor |
| Maple Isle | 00 | PI 194.641 x L62-667(2)<br>PI 194.641 is Holmberg 744-2 (377-8-1 x Blackeye) from Sweden<br>L62-667 is e3 from Harosoy(6) x T204<br>Cross 377 is from Koshan 4291 x Sioux |
| Maple Presto | 000 | (Amsoy x Portage) x Holmberg 840-7-3<br>Holmberg 840-7-3 is from 201-14-20 x 680+993+994 (Muncheberg)<br>201-14-20 is a sib of PI 196.491 |
| Maple Ridge | 00 | Fiskeby III (PI 196.491) x Evans |
| Marion | II | Amsoy x [Provar x (Disoy x Magna)] |
| McCall | 00 | M433 (Acme x Chippewa) x Hark |
| Mead | III | Bonus x Wayne |
| Merit | 0 | Blackhawk x Capital |
| Miami | II | Wells II(7) x PRX9-274 (PI 86.972-1 x PI 54.615-1) |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Mack | R68-105 | 1971 | Arkansas AES and USRSL |
| Madison | H20771-9 | 1960 | Ohio AES and USRSL |
| Magna | AX84-90 | 1967 | Iowa AES and USRSL |
| Maple Amber | OT80-1<br>AU313 | 1981 | Agriculture Canada, Research Station, Ottawa, Ontario, Canada |
| Maple Arrow | O73-15 | 1976 | Agriculture Canada, Research Station, Ottawa, Ontario, Canada |
| Maple Donovan | OT83-4<br>X921-33-1 | 1986 | Agriculture Canada, Plant Research Centre, Ottawa, Ontario, Canada |
| Maple Isle | OT81-5<br>K151-11-B-6 | 1984 | Agriculture Canada, Research Station, Ottawa, Ontario, Canada |
| Maple Presto | BD21117 | 1979 | Agriculture Canada, Research Station, Ottawa, Ontario, Canada |
| Maple Ridge | OT80-12Y<br>K22-3-B-1 | 1984 | Agriculture Canada, Research Station, Ottawa, Ontario, Canada |
| Marion | A73-227 | 1976 | Iowa AES, Puerto Rico AES, and USRSL |
| McCall | M65-217 | 1978 | Minnesota AES |
| Mead | U36276 | 1981 | Nebraska AES and USDA |
| Merit | O55-2065 | 1959 | Central Experimental Farm, Ottawa, Ontario, Canada |
| Miami | Wells II BC6 | 1984 | Purdue AES, Indiana |

Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions--Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Miles | IV | Clark x D64-4731 [Lee(2) x (Clark(2) x PI 84.631)] |
| Mokapu Summer | IV | UD288 (Hawkeye x FC 33.243) x Bansei |
| Monroe | I | Mukden x Mandarin |
| Morgan | IV | Union x Miles |
| Morsoy | 00 | Acme x L48-7289 (Seneca x Richland) |
| Narow | V | R66-873 (Jackson x Semmes) x Mack |
| Nathan | V | Forrest(2) x [D68-18 (Dyer x Bragg) x PI 88.788] |
| Nebsoy | II | C1432 (C1253 x Kent) x C1430 (C1253 x Kent)<br>C1253 is from Blackhawk x Harosoy |
| Norchief | 0 | Hawkeye x Flambeau |
| Norman | 00 | Acme x Hardome |
| OAC Aries | 0 | {[(T260 x Wayne) x Hark] x Altona} x McCall |
| OAC Libra | 0 | FH 31-3 (Fiskeby V x Harosoy 63) x Evans<br>Fiskeby V is PI 360.955 from Sweden |
| OAC Pisces | 0 | {[(T260 x Wayne) x Hark] x Altona} x McCall |
| OAC Scorpio | 00 | McCall x Bicentennial |
| Oakland | III | L66L-137 [Wayne x L57-0034 (Clark x Adams)] x Calland |
| Oksoy | IV | Scott(6) x Blackhawk |
| Ozzie | 0 | Wilkin x M63-217Y (a yellow hilum Hodgson near-isogenic sib) |
| Pella | III | L66L-137 [Wayne x L57-0034 (Clark x Adams)] x Calland |
| Pella 86 | III | Pella(5) x Williams 82 |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Miles | Md71-407 | 1978 | Maryland AES and USDA |
| Mokapu Summer | B-C-28-1-2-2 | 1969 | University of Hawaii, Hawaii |
| Monroe | H5 | 1948 | Ohio AES, Illinois AES, and USRSL |
| Morgan | Md79-5043 | 1986 | Maryland AES |
| Morsoy | CM30 | 1970 | Agriculture Canada, Research Station, Morden, Manitoba, Canada |
| Narow | R74-511A | 1984 | Arkansas AES |
| Nathan | J74-51 | 1980 | Tennessee AES, Mississippi AES, and USDA |
| Nebsoy | U11406 | 1979 | Nebraska AES and USDA |
| Norchief | W48S-1460 | 1954 | Wisconsin AES and USRSL |
| Norman | M424 | 1969 | Minnesota AES and USRSL |
| OAC Aries | OAC83-07 | 1986 | Crop Science Department, University of Guelph, Guelph, Ontario, Canada |
| OAC Libra | OAC82-07 | 1985 | Crop Science Department, University of Guelph, Guelph, Ontario, Canada |
| OAC Pisces | OAC81-06 | 1985 | Crop Science Department, University of Guelph, Guelph, Ontario, Canada |
| OAC Scorpio | OAC83-01 | 1986 | Crop Science Department, University of Guelph, Guelph, Ontario, Canada |
| Oakland | A74-303013 | 1978 | Iowa AES and Puerto Rico AES |
| Oksoy | S62-4051 | 1971 | Missouri AES and USRSL<br>Released by the Oklahoma AES |
| Ozzie | M71-43 | 1983 | Minnesota AES |
| Pella | A74-302012 | 1979 | Iowa AES and Puerto Rico AES |
| Pella 86 | AHW-Pella BC | 1986 | Iowa AES and Ohio ARDC |

Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions--Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Perry | IV | Patoka x L37-1355 (a rogue in PI 81.041) |
| Pershing | IV | D67-3297 [Hill(2) x Kisaya (PI 171.450)] x Essex |
| Pickett | VI | D62-7818 (D49-2491(6) x Dorman) x NC55-1 (Lee(4) x Peking)<br>D49-2491 is a Lee sib from S-100 x CNS |
| Pickett 71 | VI | Pickett x a phytophthora resistant Lee type from D49-2491(5) x Arksoy<br>D49-2491 is a Lee sib from S-100 x CNS |
| Pixie | IV | Williams x Ransom |
| Platte | II | Amsoy 71 x C1421 (Adelphia(8) x Mukden) |
| Pomona | IV | C1266 (Harosoy x C1079) x C1265 (Harosoy x C1079)<br>C1079 is from C985 (Lincoln x Ogden), a Kent progenitor |
| Portage | 00 | Acme x Comet |
| Preston | II | Schechinger S48 (IVR 1120 x SL12) x Land O Lakes Max<br>IVR 1120 is from Provar x (Amsoy x PI 91.110-1)<br>SL12 is from [(Wayne(6) x Clark 63) x (Wayne(4) x L11)] x SL9<br>L11 is from (Clark(6) x T201) x (Clark(6) x T145)<br>SL9 is from Wayne(10) x Kanrich<br>Land O Lakes Max is from [Wayne x (Clark x Adams)] x Cutler |
| Prize | II | (F6 line from Mandarin (Ottawa) x Jogun) x<br>(F6 line from Mandarin (Ottawa) x Kanro) |
| Protana | II | CX291-42-1 (Mukden x C1069) x CX258-2-3-2 (PI 65.338 x C1079)<br>C1069 is from C985 (Lincoln x Ogden), a Kent progenitor<br>C1079 is from C985 (Lincoln x Ogden), a Kent progenitor |
| Provar | II | Harosoy x Clark |
| Pyramid | IV | Franklin x J74-5 [Forrest(2) x (D68-18 x PI 88.788)]<br>D68-18 is from Dyer x Bragg |
| Rampage | I | Clark x Chippewa |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Perry | C612 | 1952 | Purdue AES, Indiana, Illinois AES, and USRSL |
| Pershing | S76-2109 | 1984 | Missouri AES |
| Pickett | NC1-2-2 | 1965 | North Carolina AES and USDA |
| Pickett 71 | D68-B4 | 1971 | Mississippi AES and USDA |
| Pixie | L74D-609 | 1980 | Ohio ARDC and USDA |
| Platte | U56355 | 1982 | Nebraska AES |
| Pomona | K1004 | 1974 | Kansas AES |
| Portage | UM4<br>S56-142 | 1964 | University of Manitoba, Winnipeg, Manitoba, Canada |
| Preston | A81-257031 | 1985 | Iowa AES |
| Prize | AX84-98 | 1967 | Iowa AES and USRSL |
| Protana | C1376 | 1969 | Purdue AES, Indiana, and USRSL |
| Provar | A61-1051 | 1969 | Iowa AES and USRSL |
| Pyramid | LS78W-110 | 1985 | Southern Illinois University, Carbondale, Illinois |
| Rampage | A62-5405 | 1969 | Iowa AES and USRSL |

Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions--Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Ransom | VII | (N55-5931 x N55-3818) x D56-1185 (Perry x Lee)<br>N55-5931 is from Perry x D49-2491 (S-100 x CNS)<br>N55-3818 is from [N45-2994 (Ralsoy x Ogden) x Ogden] x (N44-92 x N48-1867)<br>N44-92 is from Haberlandt x Ogden<br>N48-1867 is from Roanoke x N45-745 (Ogden x CNS) |
| Regal | IV | Union(8) x (PI 86.972-1 x PI 84.637) |
| Renville | I | Lincoln(2) x Richland |
| Rillito | V | Clark x D49-2491 (S-100 x CNS) |
| Ripley | IV | Hodgson x V68-1034 (York x PI 71.506) |
| Ross | III | Monroe x Lincoln |
| Scott | IV | D49-2525 (S-100 x CNS) x L46-5679 (Lincoln x Richland) |
| Semmes | VII | D51-5427 (Ralsoy x Ogden) x D49-2491 (S-100 x CNS) |
| Shelby | III | Lincoln(2) x Richland |
| Sherman | III | A72-512 (Amsoy x Wayne) x Pella |
| Shore | V | PI 80.837 x Hood |
| Sibley | I | M68-256 (Evans x Steele) x Hodgson |
| Simpson | 0 | Steele x Hodgson |
| Sloan | II | M59-120 (II-54-240 x II-54-132) x IVR Ex4731 (Amsoy x Wayne)<br>II-54-240 is from Korean x II-42-37 (Lincoln(2) x Richland)<br>II-54-132 is from Renville x Capital |
| Sohoma | VI | Davis x Lee 68 |
| Sparks | IV | Williams x Calland |
| Sprite | III | Williams x Ransom |
| Stafford | IV | V66-318 (D53-184 x J22) x V68-2331 (York x Clark)<br>D53-184 is from D49-2525 (S-100 x CNS) x L46-5679 (Lincoln x Richland)<br>J22 is from L37-1355 (a rogue in PI 81.041) x Arksoy 2913 |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Ransom | N64-2430 | 1970 | North Carolina AES and USRSL |
| Regal | C-Union BC | 1986 | Purdue AES, Indiana |
| Renville | M2 | 1952 | Minnesota AES and USRSL |
| Rillito | A3309 | 1974 | Arizona AES |
| Ripley | HC77-2204 | 1985 | Ohio ARDC and USDA |
| Ross | H24157-4 | 1960 | Ohio AES and USRSL |
| Scott | S52-7158 | 1959 | Missouri AES and USRSL |
| Semmes | D60-12327 | 1965 | Mississippi AES and USRSL |
| Shelby | L49-5139 | 1958 | Illinois AES and USRSL |
| Sherman | HW8067 | 1985 | Ohio ARDC |
| Shore | V69-156 | 1974 | Virginia AES |
| Sibley | M74-62 | 1986 | Minnesota AES |
| Simpson | M70-153 | 1982 | Minnesota AES |
| Sloan | A73-25050 | 1978 | Iowa AES and Puerto Rico AES |
| Sohoma | R68-208 | 1978 | Arkansas AES, released by Oklahoma AES |
| Sparks | K1041 | 1981 | Kansas AES |
| Sprite | HW74-3384 | 1980 | Ohio ARDC and USDA |
| Stafford | V74-315 | 1986 | Virginia AES |

Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions--Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Steele | I | Blackhawk x Harosoy |
| Swift | 0 | II-54-240 x II-54-132 (Renville x Capital)<br>II-54-240 is from Korean x II-42-37 (Lincoln(2) x Richland) |
| TN 4-86 | IV | Bedford x Crawford |
| TN 5-85 | V | (a dwarf mutant in D68-127) x Essex<br>D68-127 is from the same F4 plant as Forrest |
| Toano | V | Ware x Essex |
| Tracy | VI | D61-618 (Hill(2) x PI 171.442) x D60-9647 (FC 31.745 x D49-2510)<br>PI 171.442 is from Shaanxi Province, China<br>D49-2510 is from S-100 x CNS |
| Tracy-M | VI | A metribuzin tolerant selection from Tracy |
| Traverse | 0 | Lincoln x Mandarin (Ottawa) |
| Union | IV | Williams(5) x SL12<br>SL12 is from [(Wayne(6) x Clark 63) x (Wayne(4) x L11)] x SL9<br>L11 is from (Clark(6) x T201) x (Clark(6) x T145)<br>SL9 is from Wayne(10) x Kanrich |
| Vance | V | Essex x an unknown wild soybean strain |
| Vansoy | 0 | (a selection from Lincoln x Flambeau) x Goldsoy |
| Verde | III | Aoda x A50-7445 (Richland x Jogun) |
| Vickery | II | Corsoy(5) x (L65-1342 x Mack, or Anoka x Mack)<br>L65-1342 is from Wayne(2) x L62-1926 (Clark(6) x PI 86.024) |
| Vinton | I | Hark x [(Provar x (Disoy x Magna)] |
| Vinton 81 | I | L60-347-4-4G-2-B (Harosoy x Higan) x Vinton(5) |
| Wabash | IV | Dunfield x Mansoy |
| Ware | IV | PI 80.837 x V63-76 (Hill x D53-354)<br>D53-354 is from D49-2525 (S-100 x CNS) x L46-5679 (Lincoln x Richland) |
| Wayne | III | L49-4091 [(F3 Lincoln(2) x Richland) x (F1 Lincoln x CNS)] x Clark |

See footnotes at end of table.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Steele | M59-213 | 1972 | Minnesota AES and USRSL |
| Swift | M59-121 | 1972 | Minnesota AES and USRSL |
| TN 4-86 | TN83-7 | 1986 | Tennessee AES |
| TN 5-85 | TN77-111 | 1986 | Tennessee AES |
| Toano | V75-183 | 1985 | Virginia AES |
| Tracy | D67-4601 | 1973 | Mississippi AES and USDA |
| Tracy-M | Tracy-1023 | 1979 | Mississippi AES and USDA |
| Traverse | M417 | 1965 | Minnesota AES and USRSL |
| Union | L21 | 1977 | Illinois AES and USDA |
| Vance | V81-1325 | 1986 | Virginia AES |
| Vansoy | OAC85 | 1970 | University of Guelph, Guelph, Ontario, Canada |
| Verde | UD3210-31-14 | 1967 | Delaware AES and USRSL |
| Vickery | A75-Corsoy R3 | 1978 | Iowa AES, Puerto Rico AES, Ohio ARDC, and USDA |
| Vinton | A74-201010 | 1978 | Iowa AES and Puerto Rico AES |
| Vinton 81 | — | 1981 | Iowa AES, Puerto Rico AES, and Ohio ARDC |
| Wabash | C463 | 1948 | Purdue AES, Indiana, Illinois AES, and USRSL |
| Ware | V68-1242 | 1978 | Virginia AES and USDA |
| Wayne | L57-2222 | 1964 | Illinois AES and USRSL |

Table 6
Origins and pedigrees of modern domestic soybean varieties from public institutions—Con.

| Variety | Maturity group | Pedigree[1/] |
|---|---|---|
| Weber | I | C1453 [C1266R (Harosoy x C1079) x C1253] x Swift<br>C1079 is from C985 (Lincoln x Ogden), a Kent progenitor<br>C1253 is from Blackhawk x Harosoy |
| Weber 84 | I | Weber(5) x Century |
| Wells | II | C1266R (Harosoy x C1079) x C1253 (Blackhawk x Harosoy)<br>C1079 is from C985 (Lincoln x Ogden), a Kent progenitor |
| Wells II | II | Wells(8) x Arksoy |
| Wilkin | 0 | Merit x Harosoy |
| Will | III | Williams(6) x (Clark(6) x T117) |
| Williams | III | Wayne x L57-0034 (Clark x Adams) |
| Williams 79 | III | Williams(6) x Lee 68 |
| Williams 82 | III | Williams(7) x Kingwa |
| Winchester | III | Williams(7) x PRX12-112 (PI 86.972-1 x PI 84.637) |
| Wirth | I | Clark x Chippewa |
| Woodworth | III | Wayne x L57-0034 (Clark x Adams) |
| Wright | VII | Bragg x Lee |
| Wye | IV | From the second cycle intermating of Adams, Lincoln, Perry, Wabash, C799 (PI 70.218-2-6-7 x Lincoln), C985 (Lincoln x Ogden), FC 33.243, and L46-1503 (Lincoln(2) x Richland) |
| York | V | Dorman x Hood |
| Young | VI | Davis x Essex |
| Zane | III | Cumberland x Pella |

1/ Backcrosses are indicated by (n) after the recurrent parent, where n = the number of crosses to the recurrent parent (ex., Amsoy(8) x C1253).

2/ Often the decade digit was omitted in early years; thus Adams was tested as A5-2683 and Chippewa as L6-8275.

| Variety | Prior designation[2/] | Year licensed or released | Developer[3/] |
|---|---|---|---|
| Weber | A75-102032 | 1979 | Iowa AES and Puerto Rico AES |
| Weber 84 | Weber BC | 1985 | Iowa AES |
| Wells | C1470 | 1972 | Purdue AES, Indiana, and USRSL |
| Wells II | Wells BC6[4/] | 1978 | Purdue AES, Indiana, and USDA |
| Wilkin | M61-52 | 1972 | Minnesota AES and USRSL |
| Will | L22 | 1979 | Illinois AES and USDA |
| Williams | L66L-108 | 1971 | Illinois AES and USRSL |
| Williams 79 | L23 | 1979 | Illinois AES and USDA |
| Williams 82 | L24A | 1981 | Illinois AES and USDA |
| Winchester | Williams BC6 | 1984 | Purdue AES, Indiana |
| Wirth | A62-5407 | 1969 | Iowa AES and USRSL |
| Woodworth | L66L-172 | 1974 | Illinois AES and USRSL |
| Wright | Ga72-663 | 1979 | Georgia AES |
| Wye | Md62-3303-3 | 1971 | Maryland AES and USDA |
| York | V61-20 | 1967 | Virginia AES and USDA |
| Young | N75-2213 | 1984 | North Carolina AES and USDA |
| Zane | HW8033 | 1984 | Ohio ARDC |

[3/] Abbreviations used are AES (Agricultural Experiment Station), ARDC (Agricultural Research and Development Center), USDA (U.S. Department of Agriculture), and USRSL (U.S. Regional Soybean Laboratory at Urbana, Illinois, and Stoneville, Mississippi).

[4/] Despite the prior designation this cultivar is BC7.

Table 7
Genetic information on backcross-derived public soybean varieties

| Variety | Recurrent parent | Back-cross No. | Trans-ferred gene | Donor | Transferred phenotype |
|---|---|---|---|---|---|
| Amsoy 71 | Amsoy | 7 | Rps1 | Mukden via Blackhawk | Phytophthora resistance |
| Beeson 80 | Beeson | 7 | Rps1-c | Arksoy | Phytophthora resistance |
| Century 84 | Century | 4 | Rps1-k | Kingwa via Williams 82 | Phytophthora resistance |
| Chippewa 64 | Chippewa | 7 | Rps1 | Mukden via Blackhawk | Phytophthora resistance |
| Clark 63 | Clark | 5 | Rps1 | Mukden via Blackhawk | Phytophthora resistance |
| | | 6 | rxp | CNS | Bacterial pustule resistance |
| Corsoy 79 | Corsoy | 5 | Rps1-c | Arksoy via Lee 68 | Phytophthora resistance |
| Custer[1/] | Scott | [2/]4 | Several | Peking | Cyst nematode resistance |
| | | 8 | Rps1 | Mukden via Blackhawk | Phytophthora resistance |
| Cutler 71 | Cutler | 3 | Rps1 | Mukden via SL5 | Phytophthora resistance |
| | | 3 | rxp | CNS via SL5 | Bacterial pustule resistance |
| Gnome 85 | Gnome | 5 | Rps1-k | Kingwa via Williams 82 | Phytophthora resistance |
| Harosoy 63 | Harosoy | 7 | Rps1 | Mukden via Blackhawk | Phytophthora resistance |
| Hawkeye 63 | Hawkeye | 6 | Rps1 | Mukden via Blackhawk | Phytophthora resistance |
| Hodgson 78 | Hodgson | 6 | Rps1 | Mukden via Merit | Phytophthora resistance |
| Hood 75 | Hood | 7 | Rps1-c | Arksoy | Phytophthora resistance |
| Keller | Beeson 80 | 6 | Rps3 | PI 86.972-1 | Phytophthora resistance |
| Lee 68 | Lee | 5 | Rps1-c | Arksoy | Phytophthora resistance |
| Lee 74 | Lee 68 | 5 | Unknown | FC 33.243 | Root knot nematode resistance |
| Lindarin 63 | Lindarin | 7 | Rps1 | Mukden | Phytophthora resistance |
| Miami | Wells II | 6 | Rps3 | PI 86.972-1 | Phytophthora resistance |
| Oksoy | Scott | 5 | Rps1 | Mukden via Blackhawk | Phytophthora resistance |
| Pella 86 | Pella | 4 | Rps1-k | Kingwa via Williams 82 | Phytophthora resistance |
| Pickett[1/] | Lee | [2/]3 | Several | Peking | Cyst nematode resistance |
| | D49-2491[3/] | [2/]5 | t | Dorman | Gray pubescence |
| Pickett 71 | Pickett | [2/]5 | Rps1-c | Arksoy | Phytophthora resistance |
| Regal | Union | 7 | Rps1-b | PI 84.637 | Phytophthora resistance |
| | | 7 | hm | PI 84.637 | Metribuzin sensitivity |
| Union | Williams | 4 | Rps1 | Mukden via SL12 | Phytophthora resistance |
| | | 4 | Rpm | Kanro via SL12 | Downy mildew resistance |
| Vickery | Corsoy | 4 | Rps1-c | Arksoy via Mack | Phytophthora resistance |
| Vinton 81 | Vinton | 4 | Rps1-c | Higan | Phytophthora resistance |
| Weber 84 | Weber | 4 | Rps1 | Mukden via Century | Phytophthora resistance |
| Wells II | Wells | 7 | Rps1-c | Arksoy | Phytophthora resistance |
| Will | Williams | 5 | Dt2 | T117 via Clark BC | Semi-determinate stem |
| Williams 79 | Williams | 5 | Rps1-c | Arksoy via Lee 68 | Phytophthora resistance |
| Williams 82 | Williams | 6 | Rps1-k | Kingwa | Phytophthora resistance |
| Winchester | Williams | 6 | Rps1-b | PI 84.637 | Phytophthora resistance |
| | | 6 | Rps3 | PI 86.972-1 | Phytophthora resistance |

[1/] The genes for cyst nematode resistance transferred from Peking to Custer and Pickett are Rhg4 and probably rhg1, rhg2, and rhg3.

[2/] Approximation.

[3/] D49-2491 is a sib of Lee and similar to it.

Table 8
Genetic information on backcross-derived soybean parental lines

| Parental line | Recurrent parent | Back-cross No. | Trans-ferred gene | Donor | Transferred phenotype |
|---|---|---|---|---|---|
| AP68-1016 | Clark | 4 | Rbs1 | PI 84.946-2 | Brown stem rot resistance |
| AP68-1022 | Clark | 4 | Rbs1 | PI 84.946-2 | Brown stem rot resistance |
| C1421 | Adelphia | 7 | Rps1 | Mukden | Phytophthora resistance |
| D58-3311 | Jackson | 3 | rxp | CNS via D49-2491 | Bacterial pustule resistance |
| D58-3358 | Jackson | 3 | rxp | CNS via D49-2491 | Bacterial pustule resistance |
| D62-7818 | D49-2491[1/] | 5 | t | Dorman | Gray pubescence |
| | | 5 | w | Dorman | White flower |
| L11 | Clark | 5 | I r | T201(I) and T145(r) | Yellow hilum |
| L12 | Clark 63 | 5 | I r | T201(I) and T145(r) | Yellow hilum |
| L15 | Wayne | 5 | Rps1 | Mukden via Clark 63 | Phytophthora resistance |
| L62-667 | Harosoy | 5 | e3 | T204 | Early maturity |
| L62-1926 | Clark | 5 | e2 | PI 86.024 | Early maturity |
| NC55-1[2/] | Lee | 3 | Several | Peking | Cyst nematode resistance |
| | | 3 | i | Peking | Black seedcoat |
| R66-1516 | Lee | 4 | Unknown | FC 33.243 | Root knot nematode resistance |
| SL5 | Kent | 6 | rxp | CNS via L49-4196 | Bacterial pustule resistance |
| | | 7 | Rps1 | Mukden | Phytophthora resistance |
| SL9 | Wayne | 9 | Rpm | Kanro via Kanrich | Downy mildew resistance |
| SL12 | Wayne | 9 | Rpm | Kanro via Kanrich | Downy mildew resistance |
| | | 5 | Rps1 | Mukden via Clark 63 | Phytophthora resistance |
| | | 4 | I r | L11 | Yellow hilum |

[1/] D49-2491 is a sib of Lee and similar to it.

[2/] The genes for cyst nematode resistance transferred from Peking to NC55-1 are Rhg4 (linked to i) and probably rhg1, rhg2, and rhg3.

Table 9
Public soybean variety registrations and licenses

| Variety | Registration or license No. | Reference |
|---|---|---|
| | Old Domestic Varieties | |
| Boone | Reg. 1 | 1943. Agron. J. 35:834 |
| Capital | Reg. 16 | 1955. Agron. J. 47:541-543 |
| Earlyana | Reg. 4 | 1944. Agron. J. 36:458-460 |
| Gibson | Reg. 3 | 1944. Agron. J. 36:458-460 |
| Improved Pelican | Reg. 18 | 1955. Agron. J. 47:541-543 |
| Lincoln | Reg. 5 | 1953. Agron. J. 45:326-330 |
| Ogden | Reg. 13 | 1953. Agron. J. 45:570-571 |
| Patoka | Reg. 2 | 1944. Agron. J. 36:458-460 |
| Roanoke | Reg. 11 | 1953. Agron. J. 45:326-330 |
| | Modern Public Varieties | |
| Acme | Lic. 597 | -- |
| | Reg. 25 | 1960. Agron. J. 52:659-660 |
| Ada | Reg. 101 | 1973. Crop Sci. 13:582 |
| Adams | Reg. 7 | 1953. Agron. J. 45:326-330 |
| Adelphia | Reg. 48 | 1965. Crop Sci. 5:483 |
| Alamo | Reg. 129 | 1979. Crop Sci. 19:748 |
| Altona | -- | 1966. Can. J. Plant Sci. 46:693 |
| | Reg. 71 | 1968. Crop Sci. 8:777 |
| Amcor | Reg. 149 | 1981. Crop Sci. 21:633 |
| Amsoy | Reg. 57 | 1966. Crop Sci. 6:611-612 |
| Amsoy 71 | Reg. 91 | 1972. Crop Sci. 12:396 |
| Anoka | Reg. 83 | 1971. Crop Sci. 11:135 |
| Bay | Reg. 126 | 1979. Crop Sci. 19:564 |
| Bedford | Reg. 118 | 1978. Crop Sci. 18:915 |
| Beeson | Reg. 73 | 1969. Crop Sci. 9:523-525 |
| Beeson 80 | Reg. 133 | 1980. Crop Sci. 20:414 |
| Bethel | Reg. 63 | 1967. Crop Sci. 7:279-280 |
| Bicentennial | Lic. 2346 | 1986. Can. J. Plant Sci. 66:1005-1006 |
| Bienville | Reg. 26 | 1960. Agron. J. 52:659-660 |
| Blackhawk | Reg. 9 | 1953. Agron. J. 45:326-330 |
| Bonus | Reg. 90 | 1972. Crop Sci. 12:396 |
| Bossier | -- | -- |
| Bradley | Reg. 175 | 1984. Crop Sci. 24:998 |
| Bragg | Reg. 43 | 1964. Crop Sci. 4:664 |
| Braxton | -- | -- |
| BSR 101 | Reg. 196 | 1987. Crop Sci. 27:612 |
| BSR 201 | Reg. 163 | 1983. Crop Sci. 23:186 |
| BSR 301 | Reg. 134 | 1980. Crop Sci. 20:414-415 |
| BSR 302 | Reg. 164 | 1983. Crop Sci. 23:186-187 |
| Calland | Reg. 74 | 1969. Crop Sci. 9:524 |
| Cartter | Reg. 226 | 1988. Crop Sci. 28: |
| Celest | -- | -- |

| Variety | Registration or license No. | Reference |
|---|---|---|
| Centennial | Reg. 114 | 1977. Crop Sci. 17:979 |
| Century | Reg. 135 | 1980. Crop Sci. 20:415 |
| Century 84 | Reg. 188 | 1986. Crop Sci. 26:199-200 |
| Chamberlain | Reg. 194 | 1987. Crop Sci. 27:611 |
| Chico | Reg. 183 | 1985. Crop Sci. 25:711 |
| Chippewa | Reg. 19 | 1958. Agron. J. 50:690-691 |
| Chippewa 64 | Reg. 42 | 1964. Crop Sci. 4:663-664 |
| Clark | Reg. 20 | 1958. Agron. J. 50:690-691 |
| Clark 63 | Reg. 39 | 1964. Crop Sci. 4:663 |
| Clay | Reg. 76 | 1969. Crop Sci. 9:525 |
| CN210 | Reg. 227 | 1988. Crop Sci. 28: |
| CN290 | Reg. 228 | 1988. Crop Sci. 28: |
| Cobb | -- | -- |
| Coles | Reg. 112 | 1977. Crop Sci. 17:824 |
| Columbus | Reg. 92 | 1972. Crop Sci. 12:396 |
| Comet | Lic. 596 | -- |
| | Reg. 27 | 1960. Agron. J. 52:659-660 |
| Corsoy | Reg. 81 | 1970. Crop Sci. 10:729 |
| Corsoy 79 | Reg. 220 | 1988. Crop Sci. 28: |
| Crawford | Reg. 125 | 1979. Crop Sci. 19:412 |
| Crest | Lic. 703 | -- |
| Cumberland | Reg. 139 | 1980. Crop Sci. 20:672-673 |
| Curtis | — | -- |
| Custer | Reg. 68 | 1968. Crop Sci. 8:402 |
| Cutler | Reg. 75 | 1969. Crop Sci. 9:524-525 |
| Cutler 71 | Reg. 89 | 1971. Crop Sci. 11:941-942 |
| Dare | Reg. 50 | 1966. Crop Sci. 6:95 |
| Dassel | Reg. 200 | 1987. Crop Sci. 27:1091 |
| Davis | Reg. 56 | 1966. Crop Sci. 6:502 |
| Dawson | Reg. 182 | 1985. Crop Sci. 25:572 |
| Delmar | Reg. 62 | 1967. Crop Sci. 7:279 |
| DeSoto | Reg. 132 | 1980. Crop Sci. 20:288 |
| Disoy | Reg. 65 | 1967. Crop Sci. 7:403 |
| Dorman | Reg. 15 | 1955. Agron. J. 47:541-543 |
| Douglas | Reg. 154 | 1982. Crop Sci. 22:160 |
| Dowling | (Reg. 120) | 1978. Crop Sci. 18:1094 |
| Dunn | Reg. 82 | 1970. Crop Sci. 10:729 |
| Duocrop | Reg. 157 | 1982. Crop Sci. 22:448-449 |
| Dyer | Reg. 69 | 1968. Crop Sci. 8:402 |
| Egyptian | Reg. 199 | 1987. Crop Sci. 27:817-818 |
| Elf | Reg. 150 | 1981. Crop Sci. 21:633-634 |
| Elgin | Reg. 173 | 1984. Crop Sci. 24:385-386 |
| Emerald | -- | -- |
| Epps | Reg. 176 | 1984. Crop Sci. 24:998-999 |
| Essex | Reg. 97 | 1973. Crop Sci. 13:495 |
| Evans | Reg. 109 | 1975. Crop Sci. 15:735 |
| Fayette | Reg. 225 | 1988. Crop Sci. 28: |

Table 9
Public soybean variety registrations and licenses--Con.

| Variety | Registration or license No. | Reference |
|---|---|---|
| Ford | Reg. 28 | 1960. Agron. J. 52:659-660 |
| Forrest | Reg. 96 | 1973. Crop Sci. 13:287 |
| Foster | -- | -- |
| Franklin | Reg. 144 | 1980. Crop Sci. 20:825 |
| Fremont | Reg. 190 | 1986. Crop Sci. 26:648 |
| Gail | Reg. 128 | 1979. Crop Sci. 19:747 |
| GaSoy 17 | Reg. 121 | 1979. Crop Sci. 19:130 |
| Gnome | Reg. 151 | 1981. Crop Sci. 21:634 |
| Gnome 85 | -- | -- |
| Gordon | Reg. 184 | 1985. Crop Sci. 25:711-712 |
| Govan | Reg. 117 | 1978. Crop Sci. 18:914-915 |
| Grande | Reg. 115 | 1977. Crop Sci. 17:824-825 |
| Grant | Reg. 21 | 1958. Agron. J. 50:690-691 |
| Gregg | Reg. 207 | 1988. Crop Sci. 28:196 |
| Hack | Reg. 185 | 1985. Crop Sci. 25:1128 |
| Harcor | Lic. 1594 | 1976. Can. J. Plant Sci. 56:973-974 |
| | Reg. 119 | 1978. Crop Sci. 18:915 |
| Hardee | Reg. 44 | 1964. Crop Sci. 4:664 |
| Hardin | Reg. 165 | 1983. Crop Sci. 23:402 |
| Hardome | Lic. 592 | -- |
| Hark | Reg. 64 | 1967. Crop Sci. 7:403 |
| Harlon | Lic. 1536 | 1976. Can. J. Plant Sci. 56:971-972 |
| Harly | -- | -- |
| Harosoy | Lic. 560 | -- |
| | Reg. 17 | 1955. Agron. J. 47:541-543 |
| Harosoy 63 | Reg. 41 | 1964. Crop Sci. 4:663-664 |
| Harper | Reg. 172 | 1984. Crop Sci. 24:385 |
| Harwood | Lic. 1251 | 1971. Can. J. Plant Sci. 51:337-338 |
| Hawkeye | Reg. 6 | 1953. Agron. J. 45:326-330 |
| Hawkeye 63 | Reg. 40 | 1964. Crop Sci. 4:663-664 |
| Henry | Reg. 34 | 1962. Crop Sci. 2:534 |
| Hill | Reg. 29 | 1960. Agron. J. 52:659-660 |
| Hobbit | -- | -- |
| Hodgson | Reg. 110 | 1975. Crop Sci. 15:735 |
| Hodgson 78 | Reg. 123 | 1979. Crop Sci. 19:296-297 |
| Hood | Reg. 30 | 1960. Agron. J. 52:659-660 |
| Hood 75 | Reg. 111 | 1976. Crop Sci. 16:741 |
| Hoyt | -- | -- |
| Hutton | Reg. 100 | 1973. Crop Sci. 13:582 |
| Jackson | Reg. 22 | 1958. Agron. J. 50:690-691 |
| James | -- | -- |
| Jeff | Reg. 155 | 1982. Crop Sci. 22:160 |
| Johnston | Reg. 205 | 1987. Crop Sci. 27:1093 |
| Jupiter | Reg. 99 | 1973. Crop Sci. 13:582 |
| Jupiter-R | Reg. 160 | 1982. Crop Sci. 22:1263-1264 |
| Kahala | -- | -- |
| Kaikoo | -- | -- |

| Variety | Registration or license No. | Reference |
|---|---|---|
| Kailua | — | — |
| Kanrich | Reg. 55 | 1966. Crop Sci. 6:391 |
| Keller | Reg. 174 | 1984. Crop Sci. 24:824-825 |
| Kent | Reg. 38 | 1964. Crop Sci. 4:240 |
| Kershaw | Reg. 191 | 1986. Crop Sci. 26:648-649 |
| Kim | Reg. 54 | 1966. Crop Sci. 6:391 |
| Kino | — | — |
| Kirby | — | — |
| Lakota | Reg. 171 | 1984. Crop Sci. 24:384-385 |
| Lawrence | Reg. 224 | 1988. Crop Sci. 28: |
| Lee | Reg. 23 | 1958. Agron. J. 50:690-691 |
| Lee 68 | Reg. 72 | 1968. Crop Sci. 8:777 |
| Lee 74 | Reg. 106 | 1975. Crop Sci. 15:100 |
| Leflore | Reg. 186 | 1985. Crop Sci. 25:1128-1129 |
| Lindarin | Reg. 31 | 1960. Agron. J. 52:659-660 |
| Lindarin 63 | Reg. 37 | 1964. Crop Sci. 4:240 |
| Logan | Reg. 189 | 1986. Crop Sci. 26:386-387 |
| Mack | Reg. 93 | 1972. Crop Sci. 12:396-397 |
| Madison | Reg. 35 | 1962. Crop Sci. 2:534 |
| Magna | Reg. 66 | 1967. Crop Sci. 7:403 |
| Maple Amber | Lic. 2111 | — |
| Maple Arrow | Lic. 1674 | — |
| Maple Donovan | Reg. 2713 | — |
| Maple Isle | Lic. 2426 | — |
| Maple Presto | Lic. 1906 | — |
| Maple Ridge | Lic. 2425 | — |
| Marion | Reg. 113 | 1977. Crop Sci. 17:824 |
| McCall | Reg. 124 | 1979. Crop Sci. 19:297 |
| Mead | Reg. 156 | 1982. Crop Sci. 22:449 |
| Merit | Lic. 764 | 1960. Can. J. Plant Sci. 40:207-208 |
| | Reg. 32 | 1960. Agron. J. 52:659-660 |
| Miami | Reg. 177 | 1984. Crop Sci. 24:999 |
| Miles | Reg. 131 | 1980. Crop Sci. 20:287-288 |
| Mokapu Summer | — | — |
| Monroe | Reg. 8 | 1953. Agron. J. 45:326-330 |
| Morgan | Reg. 208 | 1988. Crop Sci. 28:196 |
| Morsoy | Lic. 1237 | 1970. Can. J. Plant Sci. 50:509-510 |
| Narow | Reg. 181 | 1985. Crop Sci. 25:367 |
| Nathan | Reg. 161 | 1982. Crop Sci. 22:1264 |
| Nebsoy | Reg. 138 | 1980. Crop Sci. 20:416 |
| Norchief | Reg. 24 | 1958. Agron. J. 50:690-691 |
| Norman | Reg. 84 | 1971. Crop Sci. 11:135 |
| OAC Aries | Lic. 2617 | 1987. Can. J. Plant Sci. 67:257-258 |
| OAC Libra | Lic. 2519 | 1986. Can. J. Plant Sci. 66:1007-1008 |
| OAC Pisces | Lic. 2520 | 1986. Can. J. Plant Sci. 66:1009-1010 |
| OAC Scorpio | Lic. 2618 | 1987. Can. J. Plant Sci. 67:255-256 |
| Oakland | Reg. 140 | 1980. Crop Sci. 20:673 |

Table 9
Public soybean variety registrations and licenses—Con.

| Variety | Registration or license No. | Reference |
|---|---|---|
| Oksoy | Reg. 166 | 1983. Crop Sci. 23:598 |
| Ozzie | Reg. 179 | 1985. Crop Sci. 25:366 |
| Pella | Reg. 136 | 1980. Crop Sci. 20:415 |
| Pella 86 | Reg. 206 | 1987. Crop Sci. 27:1313 |
| Perry | Reg. 12 | 1953. Agron. J. 45:570-571 |
| Pershing | Reg. 180 | 1985. Crop Sci. 25:367 |
| Pickett | Reg. 52 | 1966. Crop Sci. 6:305 |
| Pickett 71 | Reg. 87 | 1971. Crop Sci. 11:603 |
| Pixie | -- | -- |
| Platte | Reg. 169 | 1984. Crop Sci. 24:384 |
| Pomona | Reg. 108 | 1975. Crop Sci. 15:281 |
| Portage | Lic. 920 | -- |
| | Reg. 58 | 1966. Crop Sci. 6:612 |
| Preston | Reg. 197 | 1987. Crop Sci. 27:612-613 |
| Prize | Reg. 67 | 1967. Crop Sci. 7:404 |
| Protana | Reg. 86 | 1971. Crop Sci. 11:312 |
| Provar | Reg. 78 | 1970. Crop Sci. 10:728 |
| Pyramid | Reg. 210 | 1988. Crop Sci. 28:375-376 |
| Rampage | Reg. 80 | 1970. Crop Sci. 10:729 |
| Ransom | Reg. 95 | 1973. Crop Sci. 13:130 |
| Regal | Reg. 193 | 1987. Crop Sci. 27:365 |
| Renville | Reg. 45 | 1964. Crop Sci. 4:664-665 |
| Rillito | -- | -- |
| Ripley | -- | -- |
| Ross | Reg. 36 | 1962. Crop Sci. 2:534 |
| Scott | Reg. 60 | 1967. Crop Sci. 7:81 |
| Semmes | Reg. 53 | 1966. Crop Sci. 6:390-391 |
| Shelby | Reg. 33 | 1960. Agron. J. 52:659-660 |
| Sherman | Reg. 195 | 1987. Crop Sci. 27:611-612 |
| Shore | Reg. 107 | 1975. Crop Sci. 15:100 |
| Sibley | Reg. 201 | 1987. Crop Sci. 27:1091-1092 |
| Simpson | Reg. 162 | 1982. Crop Sci. 22:1264 |
| Sloan | Reg. 141 | 1980. Crop Sci. 20:673 |
| Sohoma | Reg. 167 | 1983. Crop Sci. 23:598 |
| Sparks | Reg. 168 | 1983. Crop Sci. 23:598 |
| Sprite | -- | -- |
| Stafford | Reg. 203 | 1987. Crop Sci. 27:1092 |
| Steele | Reg. 102 | 1973. Crop Sci. 13:582-583 |
| Swift | Reg. 103 | 1973. Crop Sci. 13:583 |
| TN 4-86 | Reg. 219 | 1988. Crop Sci. 28: |
| TN 5-85 | Reg. 192 | 1986. Crop Sci. 26:649 |
| Toano | Reg. 202 | 1987. Crop Sci. 27:1092 |
| Tracy | Reg. 105 | 1974. Crop Sci. 14:777 |
| Tracy-M | Reg. 143 | 1980. Crop Sci. 20:825 |
| Traverse | Reg. 49 | 1966. Crop Sci. 6:95 |
| Union | Reg. 158 | 1982. Crop Sci. 22:688 |
| Vance | -- | -- |

| Variety | Registration or license No. | Reference |
|---|---|---|
| Vansoy | Lic. 1241 | -- |
| | Reg. 88 | 1972. Crop Sci. 12:129 |
| Verde | Reg. 85 | 1971. Crop Sci. 11:312 |
| Vickery | Reg. 148 | 1981. Crop Sci. 21:475 |
| Vinton | Reg. 142 | 1980. Crop Sci. 20:673-674 |
| Vinton 81 | Reg. 170 | 1984. Crop Sci. 24:384 |
| Wabash | Reg. 10 | 1953. Agron. J. 45:326-330 |
| Ware | Reg. 127 | 1979. Crop Sci. 19:564 |
| Wayne | Reg. 51 | 1966. Crop Sci. 6:305 |
| Weber | Reg. 137 | 1980. Crop Sci. 20:415-416 |
| Weber 84 | Reg. 198 | 1987. Crop Sci. 27:613 |
| Wells | Reg. 98 | 1973. Crop Sci. 13:583 |
| Wells II | Reg. 122 | 1979. Crop Sci. 19:296 |
| Wilkin | Reg. 104 | 1973. Crop Sci. 13:583 |
| Will | Reg. 223 | 1988. Crop Sci. 28: |
| Williams | Reg. 94 | 1972. Crop Sci. 12:716 |
| Williams 79 | Reg. 221 | 1988. Crop Sci. 28: |
| Williams 82 | Reg. 222 | 1988. Crop Sci. 28: |
| Winchester | Reg. 178 | 1984. Crop Sci. 24:999-1000 |
| Wirth | Reg. 79 | 1970. Crop Sci. 10:729 |
| Woodworth | Reg. 116 | 1977. Crop Sci. 17:979 |
| Wright | Reg. 130 | 1980. Crop Sci. 20:287 |
| Wye | -- | -- |
| York | Reg. 70 | 1968. Crop Sci. 8:776 |
| Young | Reg. 204 | 1987. Crop Sci. 27:1093 |
| Zane | Reg. 187 | 1986. Crop Sci. 26:199 |

Table 10
Corrections to published pedigree information

| Variety | Correct | Incorrect | Reference with incorrect information |
|---|---|---|---|
| Altona | Flambeau x 052-903 | 052-903 x Flambeau | 1963 Uniform Prelim. Test 00<br>1964-66 Uniform Test 00 |
| Bay | R54-168 | R64-168 | 1975-77 Uniform Test V |
| Bicentennial | Fiskeby V x Harosoy 63 | Harosoy 63 x Fiskeby V | 1986. Can. J. Plant Sci. 66:1005-1006<br>1983-86 Uniform Test 00 |
| Centennial | Jackson(4) x D49-2491 | D49-2491(4) x Jackson | 1977. Crop Sci. 17:979 |
| Clay | Renville x Capital | Capital x Renville | 1964-84 Uniform Test 00 and 0 |
| Custer | Blackhawk | Mukden (may be correct) | 1982 U.T. Strain Index 00 to IV |
| Dare | Hill x D52-810 | D52-810 x Hill | 1960. Agron. J. 52:659 |
| Kershaw | Hale 3 | Hale 7 | 1979 Uniform Test VI |
| Kim | Sac(2) x Richland | Richland x Sac(2) | 1958 Uniform Prelim. Test II |
| Kino | Clark x D49-2491 | D49-2491 x Clark | 1966 Release Notice<br>1961 Uniform Prelim. Test VI |
| Logan | (Beeson x L15) x Amsoy | Amsoy x (Beeson x L15) | 1985 Release Notice |
| | Amsoy | Amsoy 71 (may be correct) | 1981-83 Uniform Test III |
| Pickett | D62-7818 x NC55-1 | NC55-1 x D62-7818 | 1966. Crop Sci. 6:305 |
| Platte | Amsoy 71 x C1421 | C1421 x Amsoy 71 | 1984. Crop Sci. 24:384 |
| Preston | PI 91.110-1 | PI 191.110-1 | 1982 Uniform Prelim. Test IIA<br>1983, 1984, 1986 Uniform Test II<br>1987. Crop Sci. 27:612-613 |
| Ransom | N55-5931 x N55-3818 | N55-3843 x N55-2908 | 1968-69 Uniform Test VII |
| Ripley | York | Dare | 1971 Uniform Test V (V68-1034) |
| | Hodgson x V68-1034 | L72U-2567 x Essex | 1984-85 Uniform Test IV<br>(correct in 1982, 1983, 1986) |
| | PI 71.506 | PI 171.506 | 1985 Release Notice |
| Sloan | II-54-132 | II-54-139 | 1974-78 Uniform Test II (M59-120) |
| | Korean x II-42-37 | II-42-37 x Korean | 1973. Crop Sci. 13:583 (II-54-240) |
| Swift | II-54-132 | II-54-139 | 1967-77 Uniform Test 0 |
| | Korean x II-42-37 | II-42-37 x Korean | 1980. Crop Sci. 20:673 (II-54-240) |
| TN 5-85 | Dwarf mutant in D68-127 | Dwarf mutant in Forrest | 1986. Crop Sci. 26:648-649 |
| Union[1/] | SL12 | SL11 | 1976-79 Uniform Test IV |
| | T145 | T245 | 1982 U.T. Strain Index 00 to IV (L11) |

1/ The original cross leading to the development of Union was made to a heterogeneous line that included both SL11 and SL12.